Numeracy lesson plans Primary 4, term 2, weeks 16-20 Multiplication, division, statistics and time

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Introduction

Teaching and learning processes in Kwara State have improved as a result of the introduction of the new lesson plans developed by the State School Improvement Team (SSIT). The recent improvement in the quality of education in Kwara is a direct function of quality teaching.

Evidence of improved teaching quality includes an increase in the number of pupils completing basic education and a general improvement in the levels of literacy and numeracy. Teachers in Kwara have experienced tremendous professional improvements through training and refresher programmes on the new lesson plans, facilitated by SSIT and school support officers (SSOs).

These lesson plans, designed and edited by Education Sector Support Programme in Nigeria (ESSPIN), have become Kwara teachers' classroom companion. As teaching manuals, the lesson plans have been designed to provide a step-by-step guide in the teaching of literacy and numeracy. The lesson plans promote more collaborative, interactive, participatory and reflective learning to encourage children to become active learners.

I am sure that continuous use of these lesson plans by teachers will raise the standard of our education in Kwara State and also assist in consolidating the new administration's education reform. I therefore appreciate the contribution of the UK Department for International Development (DFID), through ESSPIN, in designing, editing and producing the lesson plans.

Alhaji Saka Onimago

Honourable Commissioner for Education and Human Capital Development, Kwara State

Alhaji (Barr) Lanre Daibu Executive Chairman Kwara State Universal Basic Education Board

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Numeracy lesson plans

The numeracy lessons teach calculation, shape, symmetry, fractions and time. Each week focuses on one of these topics.

How

How?

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This section illustrates a key concept through simple instructions and photographs. A sign at the top of the column shows you which part of the lesson uses this resource.

Learning expectations	Assessment		
Every pupil in the class will be at a different stage of understanding in maths. The first page of each week outlines learning expectations for the week. These learning expectations are broken	On each weekly page there is an assessment to for you to carry out with five pupils at the end of the week. This will help you find out whether they have met the learning expectations.		
into three levels: What all pupils will be able to do. What most pupils will be able to do.	Next to the task, there is an example of a pup work, which shows		
	what a pupil can do if the have met the learning expectations.		
What some pupils will be able to do.	If most pupils have not m the learning expectations you may have to teach so of the week again.		

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Daily practice	Introduction	Main activity	Plenary
Helps the pupils to practise something they have previously learned. It should only last 15 minutes and move at a fairly fast pace.	Provides the focus for the lesson. Often involves a variety of fun, quick activities which prepare the pupils for the main topic.	Gives the pupils the opportunity to explore the main topic in different ways. This usually involves group, pair or individual tasks. Your role as a teacher during the main activity is to work with groups and individuals to help them to understand the ideas.	Finishes the lesson with different ways of reviewing learning.

Lesson title

Weekly page Primary 4, numeracy lesson plans

Week 16: Multiplication

Multiplication square

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Words/phrases

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Write these words on the chalkboard and leave them there for the week.

fraction equivalent multiplication square grid method place value decimal numbers tenths

Learning expectations

By the end of the week:

All pupils will be able to: Multiply a two-digit number by a singledigit number, using the grid method.

Most pupils will be able to: Multiply decimal numbers using the grid method.

Some pupils will be able to:

Solve multiplication word problems that involve decimals.

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Assessment task		Example of a pupil's work	
Instructions:	3	This pupil can: Place a decimal	
Ask individual pupils to write two three-	Ask the pupils to solve the following sums using	number under the correct value headings.	HTU.t 256.7
digit numbers with onethe grid method:decimal place. $23.5 \times 3 =$ $\overline{2}$ $78.3 \times 4 =$	Multiply decimal numbers using the grid method.		
Ask the pupils to place the numbers under the correct place value headings.	4 Ask the pupils to solve the following word problem: Hassan wants to travel to his family four times a year. His family lives 256.7km away from Hassan. How many km does Hassan travel in one year?	 Solve a word problem using decimal multiplication. 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
			$ \begin{array}{r} Th H T U.t \\ $
			Hassan needs to travel 1026.4 km in 1 year.

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Lesson title

Week 16: **Day 1: Multiplication** The grid method

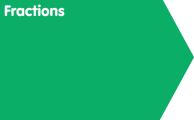
Learning outcomes	Preparation
By the end of the lesson,	Before the lesson:
most pupils will be able to:	Have ready three pieces of paper.
Identify simple fractions.	Read How? Fractions, as shown below.
Multiply a two-digit number by a single-digit number.	Draw a multiplication square on the chalk- board, as shown on this week's weekly page, and leave it there for the week.

Multiplication square

Paper/

How?

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Draw a rectangle divided into eighths. Shade in two eighths and ask a pupil to write the fraction that is shaded.

Draw a square, shade three quarters and ask a pupil to write the fraction.

Repeat the process, drawing more squares.



Ask the pupils to say and write the fractions.

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15 How Paper minutes	10 Multiplication square minutes	25 minutes		10 minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Pair task	Whole class teaching	Pair task	Pair task
Remind the class that a fraction is a part of a whole.	Ask the pairs to say the 2, 3, 4 and 5 times tables to each other. Show the class how to find	Write '48 x 3 =' on the chalkboard and ask the pupils what method they could use to work	Write the following sums on the chalkboard for the pairs to complete in their exercise books:	Choose some pairs to show how they worked out their answers on the chalkboard.
Demonstrate by folding pieces of paper into halves, quarters and eighths.	the answer to 7 x 8, using the multiplication square.	$\frac{13 \times 4}{19 \times 4} = \frac{13 \times 4}{19 \times 4} = \frac{19 \times 4}{25 \times 5} = \frac{13 \times 4}{19 \times 4} = \frac{19 \times 4}{25 \times 5} = \frac{19 \times 4}{10} = \frac{10 \times 4}{10} = 10 \times 4$	10 × 4 – Ask	Ask the other pairs to check that they are correct.
Teach How? Fractions, as shown left.	the pupils to draw ares in their exercise ks showing the wing fractions: 4 1 the pupils to draw area in their exercise the pupils to draw a finger on the 8 in the first row. Move one finger down the column and the other finger along the row until they meet at	with them: <u>x 40 8</u> <u>3 120 24</u>		
Ask the pupils to draw squares in their exercise books showing the following fractions: $\frac{5}{8} \frac{4}{10} \frac{1}{4}$		3 120 24120 + 24 = 144Remind them to add the Units, then the Tens.Repeat with 28 x 3 =		
	Ask the pairs to find the answers to the following multiplication sums, using the multiplication square: 6×9 8×6 7×9 4×7			

Lesson title

Week 16: **Day 2: Multiplying Multiplication** decimal numbers

Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson: Display the multiplication square from
Order fractions.	Week 16, Day 1 (yesterday).
Multiply a simple decimal number by one digit.	Read How? Multiply decimals, as shown below.

Multiplication square

How? **Multiply decimals**



Write, '0.3' on the chalkboard and write the place values above the digits.

Write, '0.3 \times 3 =', explain that we now have nine tenths and write the answer.

Write, '0.4 x 3 =' and explain that the answer is 12 tenths.

Explain that 12 tenths is 1 Unit and 2 tenths. Write in the answer. Write, '0.8 x 4 =' then multiply the tenths and change the answer to Units and tenths.

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15 minutes	10 Multiplication square minutes	25 How minutes	Multiplication square	10 minutes
Daily practice	Introduction	Main activity		Plenary
Pair task	Whole class teaching	Whole class teaching	Pair task	Whole class teaching
Choose some pupils to help you draw squares on the chalkboard showing the following fractions: $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{6}$ $\frac{1}{5}$ Ask the class, 'Which is the biggest fraction?', 'Which is the smallest fraction?'	Remind the pupils how to use the multiplication square. Choose some pupils to come and find the answers to the following sums: $8 \times 8 =$ $7 \times 7 =$ $4 \times 8 =$ Ack the pairs to write four	Ask the pupils, 'How many tenths are there in a whole?' (10) Explain that if we have 14 tenths then we have 1 Unit and 4 tenths. Write it on the chalk- board under the correct	Write the following sums on the chalkboard for the pupils to complete in their exercise books: $0.7 \times 2 =$ $0.6 \times 3 =$ $0.5 \times 5 =$ $0.4 \times 7 =$ $0.6 \times 6 =$	Write this word problem on the chalkboard, 'Kassim needs 0.4m of fabric to make a skirt. How many metres does he need to make eight skirts?' Ask a pupil to write the calculation needed to solve this on the chalkboard.
Remind the pupils of the meaning of the symbols < and >. Ask the pairs to use the correct symbol to complete these number sentences	Ask the pairs to write four sums from the times tables in their exercise books. Tell them to swap books and write the answers using the multiplication square.	place value headings. Ask, 'If I have 16 tenths, how many Units and tenths do I have?' Teach How? Multiply decimals, as shown left.	0.4 x 9 = 0.8 x 7 = 0.6 x 8 = Remind them to look at the multiplication square if they need to.	(0.4 x 8 =) Choose some pupils to help you complete the calculation on the chalkboard.



in their exercise books:

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Lesson title

Week 16:Day 3:MultiplicationMultiplying
decimals
with the grid
method

Learning outcomes	Preparation
By the end of the lesson,	Before the lesson:
most pupils will be able to: Generate equivalent	Read How? Grid method with decimals, as shown below.
fractions. Multiply decimal numbers using the grid method.	Display the multiplication square from Week 16, Day 1 (earlier this week).
using me grid memod.	Have ready a large piece of paper.

Multiplication square/

Paper

How? Grid method with decimals



Write '45.4 x 4 =' on the chalkboard.

Expand the number, draw the grid underneath and write 'x 4'.

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Multiply the tenths, Units and Tens.



Add the tenths, Units, Tens and Hundreds. Put the number together: 100 + 80 + 1.6 = 181.6

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15 Paper minutes	10 minutes	25 Multiplication square		10 minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Whole class teaching	Whole class teaching	Pair task	Whole class teaching
Remind the pupils that 'equivalent fractions' are fractions that have	Expand 368.2 on the chalkboard: 300 + 60 + 8 + 0.2	Teach How? Grid method with decimals, as shown left.	Write the following sums on the chalkboard and ask the pairs to complete	Write this word problem on the chalkboard, 'Each sack of mangoes
the same value. Fold the large piece of paper to demonstrate that two quarters are the same as one half.	Ask different pupils to help you expand the following numbers: 908.7 560.2 - 770.9 888.8 Write on the chalkboard: 600 + 80 + 0.3 = 500 + 40 + 0.7 = 500 + 90 + 7 + 0.3 =	Repeat, asking the pupils to help you solve the following: 38.3 x 5 = 27.5 x 6 =	 them in their exercise books, using the grid method: 37.8 x 2 = 25.6 x 3 = 33.7 x 4 = 42.9 x 5 = 	weighs 28.8kg. How much do five sacks weigh?' Ask a pupil to write the calculation needed to solve this on the chalkboard
Remind the pupils that we can make equivalent fractions by multiplying the numerator and the denominator by the same number.			Remind the pupils that they can use the multi- plication square to help with the times tables.	(28.8 x 5 =). Choose some pupils to help you complete the calculation on the chalkboard.
Choose some pupils to help you make equivalent fractions for $\frac{3}{4}$ and $\frac{2}{3}$	Ask the pupils to help you write the numbers under the correct place value headings.	_		

Lesson title

Week 16: **Day 4:** Word problems **Multiplication**

Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson: Prepare a set of fraction flash cards for
Identify some common equivalent fractions.	each group, as outlined in How? Matching fractions game, below.
Solve multiplication word problems involving decimals.	Display the multiplication square from Day 1.

Multiplication square

Flash cards/

How? **Matching fractions** game



Make a set of fraction flash cards for all the eighths and quarters.

Also make flash cards for thirds and sixths, and make three 'half' flash cards.

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Place all of the flash cards face up so the pupils can see them.

Ask the pupils, in turn, to pick two equivalent fractions. equivalent fractions.

Continue until there are no more

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15 How Flash cards minutes Flash cards	10 minutes	25 minutes	Multiplication square	10 minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Group task	Whole class teaching		Pair task
Write 'a half' on the chalkboard and ask the	Remind the pupils that they have been using the grid	Write the following word problems on the chalkboard:	Read and explain each word problem.	Ask the pupils to work with a partner to make up
pupils to say some equivalent fractions.	method to multiply numbers containing decimals.	'Nura travels 466.8km. Sani travels three times	Ask each group to say the calculation needed for	their own word problem. Ask one or two pairs to
Teach How? Matching fractions game, as	Teach How? Grid method with decimals, as	as far. How far does Sani travel?'	one of the problems.	share their problem with the rest of the class.
shown left. Give each group a set	shown in Week 16, Day 3 (yesterday).	'A fence measures 56.4m. How much do four	Ask each group to complete a different problem in their exercise books.	
of fraction flash cards to	Demonstrate with the	fences of the same length	If there is time, tell the	
play the game.	following sums: 63.4 x 3 =	measure?'	groups to complete some of	
Tell the pupils they can only keep the cards	24.8 × 6 =	'A sack of bricks weighs 30.5kg. How much do	the other problems.	
if they have equivalent fractions.		six sacks of bricks weigh?'	Remind the pupils that they can use the multi-	
The pupil with the		'A family uses 45.2 litres of water every day. How	plication square to help with the times tables.	
most cards at the end is the winner.		much water does the family use in a week?'		

Lesson title

Week 16:Day 5:MultiplicationMore word
problems

Multiplication square Preparation Learning outcomes By the end of the lesson, Before the lesson: most pupils will be able to: Have ready a set of matching fraction Write the 9 times table flash cards for each group. quickly. Display the multiplication square from Solve multiplication word Week 16, Day 1 (earlier in the week). problems. Read about the grid method in Week 16, Days 1 and 3 (earlier this week).

Flash cards/

Read How? Times tables, as shown below.



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Ask a pupil to find the answer to 7 x 7 on the multiplication square. Write the 9 times table on the chalkboard, using the multiplication square. Ask the pupils if they can see any patterns in the 9 times table.

Explain that the digits in each answer add to 9.

Explain that the first digit of each answer is one less than the number multiplied, so $2 \times 9 = 18$.

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15 Flash cards minutes	10 Multiplication square	25 minutes		10 minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Whole class teaching	Whole class teaching	Group task	Whole class teaching
Give each group the matching fraction flash cards.	Teach How? Times tables, as shown left.	Ask some pupils to help you demonstrate how — to solve the following sums	Write the following word problems on the chalkboard:	Ask the pupils some questions from the 9 times table.
Tell the groups to place the flash cards face up on the desk.	Ask the pupils to think about the patterns as you ask them questions from the 9 times table.	a to mink terns as you stions from ble.on the chalkboard using the grid method: $56 \times 3 =$ $31.2 \times 9 =$ pupils check their neRemind them to think carefully about the place you a feach number	'A farmer planted five rows of yams, with 39 yams in each row. How many	Ask the pupils some questions from the 2, 3, 4 and 5 times tables.
Tell the pupils to take turns picking two cards.	Choose some pupils to come and check their		yams did he plant?' 'A school has four classes,	
Remind them that they can only keep the cards if they have	 answers on the multiplication square. 		with 39 pupils in each. How many pupils are in the school?'	
equivalent fractions.	_		'Yakub walks 28.5km every	
The pupil with the most cards at the end			week. How many km does he walk in nine weeks?'	
is the winner.			Read and explain the word problems.	_
Ask some of the pupils to read their equivalent fraction cards.			Ask the groups to complete each problem in their exercise books, using the grid method.	_

Grade/ Type of lesson plan Lesson title

Weekly pageWeek 17:Primary 4,
numeracy
lesson plansDivision

Words/phrases	Songs	Learning expectations
Write these words on the chalkboard and leave them there for the week.	Write this song on the chalkboard and leave it there for the week.	By the end of the week: All pupils will be able to:
multiplication division divide share repeated subtraction multiples chunking tricky sixes remainder relay	Tricky sixes: Beat the drums, Clap your hands, We know these sums: 6×1 is 6 6×2 is 12 6×3 is 18 6×4 is 24 6×5 is 30 Tricky sixes! Tricky sixes!	 Divide small numbers using times tables. Most pupils will be able to: Divide a two-digit number by a single-digit number with remainders, using repeated subtraction.
	Pick up sticks, 6 x 6 is 36 Touch your shoe, 6 x 7 is 42 Shut the gate, 6 x 8 is 48 Lock the door, 6 x 9 is 54 and 6 x 10 is 60 Beat the drums, Clap your hands, We know these sums!	Some pupils will be able to: Solve word problems involving three-digit numbers and remainders.

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Instructions:This pupil can:Ask the individual pupils to complete these tasks in their exercise books.3Ask individual pupils to solve the following sums:Ask the pupils to solve the following sums:Solve the following sums: a × 6 = r × 5 = 9 × 6 =Solve division sums using repeated subtraction: Aisha sells oranges at the weekends. She has 123 oranges and sells them in bags of eight. How many bags can she sell? How many oranges does she have left?This pupil can: Use the 5 and 6 times tables to solve simple multiplication sums. Solve division sums using repeated subtraction and remainders.3 × 6 = 18 r × 5 = 35 9 × 6 = 542Solve a division word problem with remainders.Solve a division word problem with remainders.I 2 3 ÷ 8 = - 40 ≤ 5 × 84H T 0 to 10 × 8 to 10 + 5 = 15 r 3Solve a division word problem with remainders.I 2 5 r 3 Aisha can sell us bags of oranges.	Assessment task		Example of a pupil's work	
to complete these tasks in their exercise books.Ask the pupils to solve the following word problem using repeated subtraction: Aisha sells oranges at the weekends. She has 123 oranges and sells them in bags of eight. How many bags can she sell? How many oranges does she have left?tables to solve simple multiplication sums. $3 \times 6 = 18$ $3 \times 6 = 54$ 2 $3 \times 6 = 18$ $2 \times 5 = 9$ $3 \times 6 = 18$ $3 \times 6 = 54$ 2 $3 \times 6 = 18$ $3 \times 6 = 54$ $123 \div 8 = 100$ 2 $3 \times 6 = 100$ $3 \times 6 = 100$ $123 \div 8 = 100$ $4 \times 3 \to 100$ $123 \div 8 = 100$ $123 \div 8 = 100$ $4 \times 3 \to 100$ 10×8 10 ± 100 10×8 10 ± 100 $4 \times 3 \to 100$ 10×8 10 ± 100 10×8 10 ± 100 $4 \times 3 \to 100$ 10×8 10 ± 100 10×8 10 ± 100 $4 \times 3 \to 100$ 10×8 10 ± 100 10×8 10 ± 100 4×1000 10×1000 10×1000 4×1000 10×1000 10×1000 4×1000 10×1000 10×1000 4×1000 10×1000 10×1000 4×10000 10×10000 10×10000 4×100000 10×100000 10×100000 $4 \times 100000000000000000000000000000000000$	Instructions:		This pupil can:	
1Solve division sumsAsk individual pupils to solve the following sums:Aisha sells oranges at the weekends. She has 123 oranges and sells them in bags of eight. How many bags can she sell? How many oranges does she have left?Solve division sums using repeated subtraction and remainders.2 $4 = 54$ 2 $4 = 3$ 2 $4 = 3$ 2 $4 = 3$ 2 $4 = 3$ 2 $4 = 3$ 4 $4 = 3$ 2 $4 = 3$ 4 $4 = 3$ $4 = 3$ 5×8 $4 = 3$ 5×8 $4 = 5$ $4 = 3$ $4 = 3$ 5×8 $4 = 5 + 4$ $4 = 3$ 5×8 $4 = 3$ 5×8 $4 = 5 + 4$ $4 = 3$ 5×8 $4 = 3$ 5×8 $4 = 5 + 4$ $4 = 3$ 5×8 $4 = 5 + 4$ $4 = 3$ 5×8 $4 = 5 + 4$ $4 = 3$ 5×8 $4 = 5 + 4$ $4 = 3 + 4$	to complete these tasks in	Ask the pupils to solve the following word problem	tables to solve simple	
$\frac{2}{4} + \frac{1}{2} + \frac{1}$	solve the following sums: 3 x 6 = 7 x 5 =	Aisha sells oranges at the weekends. She has 123 oranges and sells them in bags of eight. How many bags can she sell? How	using repeated subtraction and remainders. Solve a division word	9 x 6 = 54 123 ÷ 8 = $H T U$ $-\frac{80}{43} = \frac{10 \times 8}{10 \times 8}$
$112 \div 8 =$ $75 \div 5 =$ $95 \div 4 =$ (110100 dath Sett 13 oranges left.)	Ask the pupils to solve the following sums using repeated subtraction: 112 ÷ 8 = 75 ÷ 5 =	_ / _		Aisha can sell is bags of oranges. She will have 3 oranges left.

Multiplication square

Week 17: Day 1: Using plication

Using multiplication for division

Learning outcomes	Preparation
By the end of the lesson,	Before the lesson:
most pupils will be able to:	Copy the multiplication square from
Say answers to questions from the 5 times table.	the Week 16 weekly page and display it in the classroom.
Solve simple division problems.	Read How? Quick division, as shown below.

How? Quick division



Lesson

title

Tell the pairs to write a division sum in their exercise books.



Tell them to swap books.

Tell them to write the multiplication sum needed to work out the division sum.

Tell them to give the book back to their partner and write in the answer.

Repeat this process several times.

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15 Multiplication square minutes	10 How minutes	25 Fraction strips minutes		10 minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Pair task	Whole class teaching	Pair task	Whole class teaching
Ask some pupils to point to answers to the 2, 3 and 4 times tables in the multiplication square. Choose some pupils to help you write the 5 times table on the chalkboard. Ask the class, 'What do you notice?' (They end in 0 or 5.)	Write '5 x 7 = 35' on the chalkboard and remind the pupils that this means 5 groups of 7.Ask them what other facts they know using these numbers, ie:7 x 5 = 35 35 \div 7 = 5 35 \div 5 = 7	 Write these word problems on the chalkboard: 'Five friends pick 40 mangoes. How many can they have each?' 'A rope measures 36cm. It is cut into four equal pieces. How long is each piece?' 'Fumni collects 24 litres of water. How many 	Tell the pairs to work out the word problems in their exercise books. Remind them to use the times tables to help them.	Tell the pupils to get into a circle.Tell one pupil to say a division sum from the 5 times table, eg: $40 \div 5 =$ and tell the next pupil to say the multiplication sum needed to answer it, eg: $5 \times 8 = 40$.Repeat this process
Ask the pupils to help you write the 10 times table. Ask, 'What do you notice about the answers in the 5 times table and the 10 times table?' (Answers in the 5 times table are half of the answers in the 10 times table.) Ask the pupils questions from the 5 times table.	 Remind the class that we can use times tables to work out division sums. Teach How? Quick division, as shown left. 	 of water. How many three-litre jugs can she fill with water?' 'Bayo's book has 96 pages. He reads six pages every day. How many days will it take him to read the book?' Read and explain the questions and ask the pupils to say the calculation needed for each problem (division). 		until all the pupils have had a turn.

Lesson title

Week 17: Division

Day 2: Division using repeated subtraction

Preparation Learning outcomes By the end of the lesson,

most pupils will be able to:

Say answers to questions

Use repeated subtraction to solve division calculations

from the 6 times table.

with remainders.

Before the lesson:

Multiplication square/

Song

Have ready the multiplication square from Week 17, Day 1 (yesterday).

Write the Tricky sixes song from the weekly page on the chalkboard and leave it there for the rest of the week.

Read How? Repeated subtraction, as shown below.

How? **Repeated subtraction**





To solve $95 \div 5$, ask the pupils to think of about the 5 times table. $10 \times 5 = 50$, so tell the pupils to subtract 50 from 95 (45).

Ask them to think of a multiple nearest to 45 in the 5 times table $(9 \times 5 = 45)$.

Ask them to add together the answers. answer is 19.



10 + 9 = 19 so the

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15 Multiplication square/ minutes Song	10 How minutes	25 minutes		10 Song minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Group task	Whole class teaching	Pair task	Whole class teaching
Ask the class questions from the 5 times table and check their answers in the multiplication square.	Remind the class that they can use 'repeated subtraction' to solve division sums with bigger numbers.	Write '85 ÷ 6 =' on the chalkboard and use repeated subtraction to solve it: T U	Ask the pairs to help you calculate $73 \div 4 = in$ the same way.	Ask one of the pairs to solve $92 \div 6 = $ on the chalkboard.
Ask the pupils to help you write the 6 times table on the chalkboard.	Ask the pupils to use repeated subtraction, as shown left in How?	$ails$ to use ubtraction, as n How?8 5 - $\frac{6 0}{2 5}$ (10 x 6) $bils$ to use ubtraction, as n How?Ask, 'What multiple in the 6 times table is closest to 25?' (4 x 6 = 24). $ails$ Continue the calculation: T U 8 5 - 6 0 (10 x 6)	$ \begin{array}{c} 8 & 5 \\ - & \underline{6} & 0 \\ 2 & 5 \end{array} $ (10 x 6) Write the following sums on the chalkboard for the pairs to complete in their exercise books:	Sing the Tricky sixes song with the class.
Explain that they already know some of it from the other times tables they have learned.	- Repeated subtraction, to help you solve $95 \div 5 =$ Repeat with $96 \div 4 =$		02 • 6 -	
Teach the class the Tricky sixes song and make up actions for it.	Explain that this method is also called 'chunking', because we try to find big chunks to take away.			
the multiplication square. subtract furth	1			
		Explain that we cannot subtract further multiples of 6 so 1 is a remainder, or 'R'.	- ;	
		Add the multiples and the remainder (10 + 4 R1) to find the answer: 14 R1.		

Lesson title

Week 17:Day 3:DivisionRemainders

Learning outcomes	Preparation	
By the end of the lesson,	Before the lesson:	
most pupils will be able to: Say answers to questions from the 5 and 6 times tables.	Make a set of 1—10 flash cards for each group. Read How? Multiplication bingo,	
Solve division word problems	as shown below.	
involving remainders.	Make sure the Tricky sixes song, from this week's weekly page, is still on the chalkboard.	

| Flash cards/

Song

How? Multiplication bingo



Tell the pairs to look at the multiples of 6 and 5 on the chalkboard.



Ask the pairs to write 10 of the multiples in their exercise books.

Call out questions from the 5 and 6 times table.

If the pupils have the correct answer in their exercise book, tell them to cross it out. Tell them to shout, 'Bingo' when all of their numbers are crossed out.

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15 How minutes	10 minutes	25 minutes		10 Song minutes
Daily practice	Introduction	Main activity		Plenary
Pair task	Whole class teaching	Group task		Whole class teaching
Choose some pupils to write the multiples of 6,	Remind the class that they have been using	Write the following word problems on the chalkboard:	Read and explain each problem carefully.	Sing the Tricky sixes song with the class.
up to 10 x 6, on the chalkboard.	repeated subtraction for division calculations.	'Lola has 88 pens. She shares them between	Ask the groups to say the calculation needed for	Ask the class questions from the 5 and 6 times tables.
Teach How? Multiplication bingo, as shown left. y 7	repeated subtraction, as m	n, as many will each friend get? eated <17, help How many are left?' 'Tade has 74 apples. He has six hags. He peeds	· .	_
	shown in How? Repeated subtraction on Week 17, Day 2 (yesterday) to help			
	you solve the following: 72 \div 5 = 87 \div 4 =		_	
	Explain that these sums will have remainders (numbers left over).	apples be left over?' 'There are 59 pupils in Primary 4. They need to be split equally into two classes. How many pupils should there be in each class? Is there	Ask, 'What is the problem in question 3?' (There is a remainder that cannot be divided.)	_

a problem?'

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Lesson title

Week 17:Day 4:DivisionDivision of
bigger numbers

Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson:
most popils will be able to.	Read How? Quick division, as shown
Use the 6 times table to	in Week 17, Day 1.
solve division calculations.	Read How? Repeated subtraction
Use repeated subtraction to divide bigger numbers.	with bigger numbers, as shown below.

How? Repeated subtraction with bigger numbers



Ask a pupil to say a multiple of 5 (10 x 5 = 50). Subtract 50 from 165 (115).

Tell pupils a bigger multiple of 5 can be used, eg: 20 x 5 = 100.

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Subtract 100 from 115 (15). Ask pupils for a multiple near to 15 ($3 \times 5 = 15$).

Subtract 15 from 15 (0).

Add the multiples (10 + 20 + 3) and write in the answer:

 $165 \div 5 = 33.$

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15 minutes	10 How minutes	25 minutes		10 Song minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching Remind the class that we can use times tables to work out simple division sums. Ask, 'Which times table will help me solve $54 \div 6$?' ($6 \times 9 = 54$, so the answer is the 9 times table). Teach How? Quick division, as shown in Week 17, Day 1 (earlier in the week).	Whole class teaching Write '165 ÷ 5 =' on the chalkboard. Explain that we can use repeated subtraction to solve calculations with big numbers but we need to find bigger chunks to take away. Teach How? Repeated subtraction with bigger numbers, as shown left. Repeat with 96 ÷ 3 =	Group task Write the following division calculations on - the chalkboard: 186 ÷ 6 = 82 ÷ 2 = 145 ÷ 5 = 148 ÷ 4 = Ask each group to work - on a different calculation in their exercise books. If there is time, ask them - to choose other calculations to work on. Ask each group to explain their calculation	Ask the class to say if they are correct, and if not to explain why. Ask the class if there are any different multiples they could use to solve the calculations more quickly.	Whole class teaching Ask each group division questions from the 6 times table, eg: 48 ÷ 6, 24 ÷ 6. Sing the Tricky sixes song.

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Lesson

title

Week 17: Day 5: **Division word** Division problems

Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to: Say answers from the 2, 3, 4, 5 and 6 times tables.	Before the lesson: Make sets of flash cards of the multiples of 5 and 6 for each group and shuffle each set well.
Solve division word problems involving bigger numbers.	Read How? Multiplication relay, as shown below.

| Flash cards

Multiplication relay



Mark a starting line and place the sets of flash cards at intervals.



Tell each group to stand in a line behind a set of cards.

Shout, 'Go!' and tell the pupils to run, in turn, to collect a card.

Tell each group to arrange their cards, in order, into the 5 and 6 times tables.

The first group ready is the winner.

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15 How minutes	10 minutes	25 minutes		10 Song minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Whole class teaching	Group task		Pair task
Ask the class to say the 5 and 6 times tables with you. Find a space for the pupils, inside or outside of the classroom, and play How? Multiplication relay, as shown left.	Write '143 \div 5 =' on the chalkboard.Ask the class, 'What method can I use to calculate this?'Tell the pupils to think of big multiples and demonstrate: H T U 1 4 3 - $\frac{1 \ 0 \ 0}{4 \ 3}$ (20 x 5) $\frac{4 \ 3}{3}$ - $\frac{4 \ 0}{3}$ (8 x 5)Explain we cannot subtract further multiples of 5, so 3 is the remainder.Add the multiples: 20 + 8 = 28Write the answer: 143 \div 5 = 28 R3.	 Write the following word problems on the chalkboard: 'Five girls share N152.00 equally among them. How much does each girl get?' 'A log of wood 220cm long is sawn into pieces 6cm long. How many 6cm pieces are there? What is the remainder?' 'A book contains 186 pages. How many days would it take to read the book if you read two pages a day?' Read and explain each problem carefully. Ask the groups to complete the word problems in their exercise books using repeated subtraction. 	Choose some groups to explain their calculations on the chalkboard and ask the other groups if they agree. Ask the class if there are any different multiples they could use to solve the calculations more quickly.	Sing the Tricky sixes song. Ask the pupils division questions from the 3, 4, 5 and 6 times tables.

Lesson

Weekly pageWeek 18:Primary 4,
numeracy
lesson plansStatistics

Words/phrases	Songs	Learning expectations	
Write these words on the chalkboard and leave them there for the week.	Write this song on the chalkboard and leave it there for the week.	By the end of the week: All pupils will be able to:	
frequency pictogram symbol most popular least popular bar chart vertical axis horizontal axis	Beat the drums, Clap your hands, We know these sums: 7 x 1 is 7 7 x 2 is 14 7 x 3 is 21 7 x 4 is 28 7 x 5 is 35	Most pupils will be able to: Draw a simple but accurate pictogram. Some pupils will be able to: Draw a bar chart with	
mode data statistics	7 x 6 is 42 Tricky sevens! Tricky sevens! Hang the washing on the line, 7 x 7 is 49. Feed the chicks, chick, chick, chicks! 7 x 8 is 56. Climb the ancient mango tree, 7 x 9 is 63 and 7 x 10 is 70 Beat the drums, Clap your hands,	intervals labelled in twos.	

We know these sums!

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Assess	sment f	task			Example of a pupil's work	
Instruc	ctions:				This pupil can:	
1 Ask individual pupils to draw a pictogram representing the following numbers:		2 Ask the pupils to make a bar chart with intervals of two, using the following information	Draw a pictogram for the correct number of animals.	Fish 12 00000		
			Draw a bar chart with intervals of two showing information from the	<u>cat</u> 7 •••• goat 15 ••••		
Fish	12		from the ho world cup:	ockey	hockey world cup.	30 -
Cat	7		Country	Goals	Find the mode of the	26 - 24 -
Goat	15		Ghana	12	hockey world cup goals from the bar chart.	22 - 20 -
			Spain	23		18 - 16 -
			Nigeria	18		
			England	22		8-
			Brazil	27		2
			United States	14		
			South Africa	18		Sweden South Africa Us Bražil England Nigeria Spain Ehana
			Sweden	6		r d finica

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Ask the pupils to find the mode of the hockey goals in this bar chart.

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The mode is 17

Lesson title

Week 18: Day 1: **Tally charts Statistics**

	Songs		
Learning outcomes	Preparation		
By the end of the lesson, most pupils will be able to:	Before the lesson: Write the Tricky sevens song, from this		
Say some answers for the 7 times table.	week's weekly page, on the chalkboard. Read the Tricky sixes song from the Week 12		
Make and interpret a simple tally chart.	weekly page (last week). Read How? Tally chart, as shown below.		

How? Tally chart

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On the chalkboard, demonstrate how to count to 20 using a tally.



Write the months of the year vertically on the chalkboard.

Ask the pupils to say their birthday month.

Record the results as a tally next to each month.



Write 'Tally chart of pupils' birthdays' above the results.

15 Songs minutes	10 How minutes	25 minutes		10 minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Whole class teaching	Whole class teaching	Group task	Group task
Sing the Tricky sixes song with the class.	Tell the class that we can use a tally chart when we are	Choose some pupils to write the following numbers	Write 'Pebbles collected' on the chalkboard and ask	Ask each group to say some of the information
Ask the pupils to help you write the 7 times table	 collecting information. Teach How? Tally chart, 	as a tally on the chalk- board: 7, 11, 22, 18 and 34.	the groups to copy it into their exercise books.	their tally chart shows, eg: who collected
on the chalkboard.	as shown left.	Take the class outside	Ask each group to write the	- the most and the least.
Choose some pupils to point to parts that they already know.	Ask the pupils to look at the tally chart you have made and find the frequency for each month.	 and ask the pupils to collect as many pebbles (or leaves) as they can in 2 minutes. Tell them that each group is going to make a tally chart to show the number and ask the pupils to names of the pupils in their group vertically unde this title. Tell them to write the number of pebbles each pupil collected by their name. 	their group vertically under	
Teach the class the Tricky			number of pebbles each pupil collected by	
sevens song and make up some actions for it.	Explain that 'frequency' means 'how many?' or - 'how often'. Explain			
Ask the pupils some questions from the 7 times table.	that the table is called a 'frequency table'.	of pebbles they collected.	Tell them to write the number as a tally.	-
Ask the pupils, 'What other information does this tally chart show?' (The most common/least common month for birthdays.)				

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Flash cards/Multiplication square/ Pictogram

Week 18:Day 2:StatisticsPictograms

Lesson

title

Learning outcomes	Preparation	
By the end of the lesson,	Before the lesson:	
most pupils will be able to:	Make a set of 1—10 flash cards	
Say the answers to the	for each group and shuffle each set.	
7 times table.	Display the multiplication square	
Interpret a pictogram.	from Week 16 in the classroom.	
	Draw the pictogram, shown opposite, on the chalkboard.	
	Read How? Multiplication cards, as shown below.	

How? Multiplication cards



Place a set of number flash cards face down in front of each group.

Tell the pupils, in turn, to take a card and say the number.

Ask them to times





Continue until all the number cards have been taken.

Ask them to times the number by 7 in their exercise books. Tell the pupils to check the answer on the multiplication square.

answer the ulti- hav square.

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15 How minutes	10 minutesMan Primary Mathematics 4	25 minutes		10 Song minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Whole class teaching	Whole class teaching	Individual task	Whole class teaching
Teach How? Multiplication cards, as shown left.	Remind the pupils that we can also use pictograms to present information.	Look at the pictogram 'Houses built in a city per year'.	Ask the pupils to write the answers in their exercise books:	Sing the Tricky sevens song from Week 18, Day 1 (yesterday).
	Look together at the pictogram representing the marks pupils obtained in Man Primary Mathematics 4, page 274. Ask 'How many pupils scored 2 marks? 4 marks'.	Explain that one symbol represents 100 houses. Ask, 'Why is this a good way to represent information?' Explain that having a symbol to represent 100 means that we have fewer symbols to draw. Read and discuss the following questions.	How many houses were built in each year?'	
			'In which year were the largest number of houses built?'	
			'In which year were the smallest number of houses built?'	
			Houses built in a city per year	
			1986	Key = 100 houses
			1987	
			1988	
			1989	

Lesson	
title	

Week 18: **Day 3:** Late for school **Statistics**

Learning outcomes	Preparation	
By the end of the lesson, most pupils will be able to:	Before the lesson: Draw the frequency table, shown	
Give division facts corresponding to the 6 and 7 times tables.	opposite, on the chalkboard. Read How? Pictograms, as shown below.	

Frequency table

Draw a simple pictogram.

How? **Pictograms**



Discuss the frequency table and explain that you are going to make it into a 'pictogram'.



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Explain that a circle will represent 2 pupils.

On the chalkboard, write the days of the week in a vertical list.

Choose some pupils to draw circles for the pupils who were late each day.

Remind them that some numbers (odd numbers) will need half a circle.

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15 Songs/ minutes Game	10 minutes	25 How Frequency table			10 minutes
Daily practice	Introduction	Main activity			Plenary
Whole class teaching	Whole class teaching	Whole class teaching	Group task		Whole class teaching
Sing the Tricky sixes and Tricky sevens songs	Remind the class that pictograms use symbols to	Teach How? Pictograms, as shown left, using the frequency table on — the chalkboard.	Rub out the pictogram on the chalkboard.		Ask the class to use their pictograms to answer the following questions: 'How many pupils were late on Tuesday?' 'Which day had the most
with the pupils.	represent numbers.		Ask the groups to draw a pictogram in their exercise books using the frequency table of pupils		
Explain to the class that they are going to play a game called 'call back'.	Draw a square on the chalkboard and say, 'This represents 2 sheep.'				
Start with the 6 times table		_	who came t as shown b	o school late, elow	number of late pupils?'
Explain that you are going to say an answer	 draw squares to represent 6 sheep and 10 sheep. 		Frequency table		'How many pupils were late altogether that week?'
from the 6 times table. Tell the pupils to shout	Ask the class, 'How	_	Day	Pupils	
	— can I represent 7 sheep?'		Monday	16	
out the number that	(Draw 3 squares and half a square.)		Tuesday	13	
would go with 6 to get	•	_	Wednesday	8	
the answer, eg: for 54 the pupils shout '9'.	Choose some pupils to draw squares to represent		Thursday	3	
	11 sheep and 15 sheep.		Friday	2	

Lesson title

Week 18:Day 4:StatisticsA bar chart

	Bar chart/ Flash cards
Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson: Copy the bar chart of favourite colours on
Say answers from the 7 times table.	to the chalkboard, as shown right.
Interpret a simple bar chart.	Read How? Bar chart, as shown below. Have ready the word/phrase flash cards.

How? Bar chart

Explain that you need to add more information to the bar chart. Tell the class that 19 pupils like yellow. Choose a pupil to draw a bar to represent 19. Ask a pupil to draw a bar to show that 18 pupils like pink. Ask a pupil to draw a bar to show the fact that 10 pupils like orange.

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15 Songs/ minutes Game	10 Bar chart minutes	25 How Bar chart					10 minutes	Flash co	ards
Daily practice	Introduction	Main activity					Plena	ry	
Whole class teaching	Whole class teaching	Whole class teaching					Whole	e class	teaching
Sing the Tricky sixes and Tricky sevens songs with the pupils. Play the call back game	also present information in a bar chart. 'What Discuss the bar chart on the chalkboard. are lik	Teach How? Bar chart, as shown left. Ask the class, 'What do you notice about green and orange?' (Both	Read and discuss the questions and ask the groups to complete them in their exercise books.		em	Flash the word/phrase cards and read and explain them to the class.			
from Week 18, Day 3 (yester-		are liked by 10 pupils.)							
day) with the 7 times table. Ask the pupils to write the 7 times table in their	Explain that the bars show the number of pupils who prefer each colour.	 Explain that 'mode' is the number that appears the most often in a set of numbers. 							
exercise books.	Tell the pupils that the line with the colour names is called the 'horizontal axis' and the line with the numbers is called the 'vertical axis'. Ask the class, 'What do you	The number 10 appears the most in this bar chart, and so it is the 'mode of the data' (information). Write these questions on the chalkboard:	Bar chart						
			20						
			18						
			16	_					
			14 12	-					
	notice about the numbers?'	'What is the most popular	12	-					
	(They go up in twos.)	colour?'	8						
	Choose some pupils	 What is the least popular colour?' 	6						
	to point to 6, 8, 7 and 11 on the vertical axis.	'How many more pupils	4						
		like pink than green?'	2						
			0	Red	Blue	Green	Yellow	Pink	Orange

Week 18: **Day 5: Statistics Absent from** school

Lesson

title

Learning outcomes	Preparation
By the end of the lesson,	Before the lesson:
most pupils will be able to:	Write frequency table of pupils
Answer questions from the 6 and 7 times tables.	absent from school, as shown opposite, on the chalkboard.
Draw a simple bar chart.	Read How? Bar chart 2, as shown below.
	Have ready rulers for each group, and the word/phrase flash cards.

Frequency table/Rulers/

Flash cards

How? Bar chart 2

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Draw a horizontal axis and write the days of the week (Monday to Friday) along it.

Draw a vertical axis and write the numbers 0—10 in twos.

Make sure that each number space is the same – check with the ruler.

Ask a pupil to draw a bar to show that 9 pupils were late on Monday.

Ask other pupils to draw the bars for the rest of the week.

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15 Songs minutes	10 minutes	25 How minutes	Frequency table	Rulers	10 Flash cards minutes
Daily practice	Introduction	Main activit	ty .		Plenary
Whole class teaching	Pair task	Whole class	s teaching	Group task	Whole class teaching
and Tricky sevens songsmode iswith the pupils.appearsPlay How? Multiplicationin a setbingo from Week 17,Ask theDay 3 (last week), using themode in	Remind the pupils that mode is the number that appears the most often - in a set of numbers.		frequency ils absent from vn below, with	Rub the bars off the chart, leaving the horizontal and vertical axis on the chalkboard.	Flash the word/phrase cards and choose some pupils to read and explain them.
	Ask the pairs to find the mode in each of the following sets of data:	Ask, 'What number is the mode?' (8) Teach How? Bar chart 2, as shown left. Frequency table		Ask the groups to use the frequency table on the chalkboad to draw a bar chart in their exercise books. Give each group a ruler	
	Set 1 8, 7, 9, 9, 10, 14, 12 Set 2				
	7, 8, 5, 7, 8, 7, 8, 6, 7	Day	Number	and tell them to use	
		Monday	9	the rulers to keep their	
	Set 3 3, 4, 3, 3, 3, 4, 5, 5, 2, 4	Tuesday	8	– lines straight.	
	0, 7, 0, 0, 0, 7, 3, 3, 2, 7	Wednesday	5	Ask the groups to make	
		Thursday	6	sure that the number spaces are the same	
		Friday	8	and try to draw the bars	

accurately.

Go and help each group in turn.

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Grade/ Type of lesson plan

Weekly page Week 19: Primary 4, Statistics numeracy and time lesson plans

Words/phrases	Learning exp
Write these words on the chalkboard and leave them there for the week. seconds minutes hours weeks months year tally chart bar chart analogue clock digital clock	By the end of All pupils will able to: Tell the time u analogue cloc Most pupils v able to: Tell the time u a digital clock. Some pupils v able to:
24-hour clock am pm	Change analo to digital time:

oectations

f the week:

be using an

will be Jsing

will be ogue times

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Assessment task		Example of a pupil's work	
Instructions:		This pupil can:	
1 Ask individual pupils to	Ask the pupils to	Record the time on an analogue clock.	
draw a clock and set the time for half past 8.	change the times to digital times.	Record the time on a digital clock.	$\begin{pmatrix} 11 & 2 \\ 10 & 2 \\ 9 & 3 \end{pmatrix}$ 25 minutes to 4
2 Ask individual pupils to show these times on an analogue clock: 03:00 19:30 22:45		Change the time from analogue to digital.	09:10 10 minutes past 9
3 Ask individual pupils to draw clocks showing the following times: 4 o'clock in the afternoon half past 5 in the morning quarter to 10 at night			$ \begin{array}{c} 11 \\ 10 \\ 2 \\ 10 \\ 8 \\ 8 \\ 6 \\ 5 \\ 8 \\ 6 \\ 5 \\ 6 \\ 5 \\ 6 \\ 7 \\ 6 \\ 7 \\ 6 \\ 7 \\ 6 \\ 7 \\ 7 \\ 7$

Lesson title

Week 19:Day 1:Statistics
and timeThree minute
tally chart

Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson:
Use number bonds to complete subtraction	Have ready a stopwatch (or the timer on a mobile phone).
sums quickly.	Read How? Time tally, as shown below.

Stopwatch

Make a tally chart to record information about time.



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Ask six pupils to come out. Give each pupil a space on the chalkboard.

Set the stopwatch ich for 3 minutes.

h Tell the pupils to write their first names as many times as they can.

Count the names and write the results in a frequency table. Choose some pupils to help you write the results as a tally chart.

15 minutes	10 minutes	25 How Stopwatch	Frequency table	10 Stopwatch minutes	
Daily practice	Introduction	Main activity		Plenary	
Whole class teaching	Whole class teaching	Whole class teaching	Group task	Whole class teaching	
Ask the class to help you to write the number bonds for 12 and 13 on	Ask the pupils to say some of the units used to measure time.	Ask the pupils to estimate how many jumps they can do in 1 minute.	Ask the groups to say two things that the tally chart shows, eg: who	Explain that you want to find out if the pupils know how long a minute is.	
the chalkboard. Write the following sums	Write their ideas on the chalkboard.	Write some of their estimates on the chalkboard.	wrote their name the most number of times.	Set the stopwatch or timer for 1 minute but do	
on the chalkboard: 12 – 9 = 12 – 7 = 12 – 6 = 12 – 8 =	Ask the following questions: 'What is the smallest unit of time?' (seconds) 'How many seconds	Use the stopwatch to time the pupils as they jump for 1 minute and ask them to count their jumps.	Rub the tally chart off the chalkboard. Ask the groups to draw the tally chart in their	 not let the class see it. Tell the pupils to put up their hands when they think a minute has passed. 	
12 - 5 = 13 - 7 = 13 - 9 = 13 - 8 =	are there in a minute?' 'How many minutes are there in an hour?' 'How many hours	Ask some pupils, 'How many jumps did you do? Did you do more or less than your estimate?'	exercise books using the frequency table to help them.	Ask them to say some units of time and put them in order from the smallest to the biggest.	
13 - 5 = 13 - 6 = Remind the pupils how to use the number bonds to complete these	are there in a whole day and night?' 'How many days are there in a year?' 'How many weeks are	Ask some pupils, 'How many times do you think you can write your name in 3 minutes?' Teach How? Time tally,			
sums quickly in their exercise books.	there in a year?'	as shown left.			

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Flash cards/Measuring tape/ Rulers

Week 19: **Day 2: Statistics** and time run 60m

Lesson title

Times taken to

Preparation Learning outcomes By the end of the lesson, most pupils will be able to: Use place value to add

Draw bars on a bar chart to represent times.

numbers quickly.

Before the lesson:

Write the following sums on large flash cards: 180 + 19 =, 140 + 28 =, 130 + 27 = 120 + 48 = 600 + 150 = 100600 + 270 =, 400 + 340 =

Find a measuring tape or a metre stick and a ruler for each group.

Read How? Times taken to run 60m. as shown below.

How? Times taken to run 60m

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Mark out 60 metres with the measuring tape, to use as a running track.



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Time each pupil as they run 60 metres and tell them their time.

Go back inside and write the pupils' names and times on the chalkboard.

Draw a bar chart and write the pupils' names on the horizontal axis. evenly spaced.

Evenly space the seconds in twos on the vertical axis.

15 Game/ Flash cards	10 minutes	25 How minutes	Bar chart	10 Bar chart minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Whole class teaching	Whole class teaching	Group task	Whole class teaching
Remind the class that they can use place value to add quickly.	Ask the pupils, 'How many seconds are there in 1 minute?'	Tell the pupils that they are going to find out how quickly some pupils can	Ask a pupil to help you shade in the first bar on the bar chart.	Ask some pupils to draw their bars on the bar chart on the chalkboard.
Tell them they are going to play the speedy addition game.	Demonstrate changing 3 minutes into seconds on the chalkboard:	 run 60 metres. Ask some pupils to say some estimates in seconds. Ask, 'How can we record these results?' (In a tally chart, frequency table or bar chart.) Choose three girls and three boys to be the runners 	Remind them that they are counting in twos. Explain that some numbers	Ask the pupils, 'Who had the fastest time?'
Hold up a sum flash card and ask the groups to discuss the answer.	3 x 60 = First multiply by 6: 3 x 6 = 18		will be in between the twos, so you will need to position them carefully.	
Tell them to put up their hands when they have an answer and ask	Then move the numbers in the answer one place value to the left:		Ask the groups to copy - and complete the bar chart in their exercise books.	_
the first group with their hands up to answer.	3 x 60 = 180 Demonstrate changing	and take the class outside. Teach How? Times taken	Give the groups the rulers - to keep their lines straight.	_
Give points if the answer is correct.	4 minutes and 25 seconds into seconds:	to run 60m, as shown left.	Ask the groups to make sure the number spaces	_
Repeat until you have shown all the flash cards	4 x 60 = 240 240 + 25 = 265 seconds		are the same and try to draw the bars accurately.	
The group with the most points wins.	Ask the pupils to change 2 minutes and 13 seconds into seconds in their exercise books.	_	Go and help each group in turn.	_

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Lesson title

Week 19: **Day 3: Telling the time Statistics** and time

Preparation Learning outcomes By the end of the lesson, Before the lesson: most pupils will be able to: Make a set of 1-10 flash cards Subtract single-digit for each group. numbers from two-digit Make card clocks with moveable numbers quickly. hands for each group, leaving blank Tell the time using an boxes for the numbers and have analogue clock. ready a real clock. Read How? Telling the time, as shown below.

Clock

Flash cards/Card clocks/

How? Telling the time



Ask the groups to write the numbers on their card clocks.

Tell them to write 'past' on one half and 'to' on the other half of the clock face.

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Ask the groups to make 8 o'clock

and half past 7 with

their clocks.

Ask them to make times with minutes past the hour.

Ask them to make times with minutes to the hour.

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15Game/minutesFlash cards	10 How minutes	25 Clock/ minutes Card clocks		10 minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Group task	Group task		Whole class teaching
Explain to the pupils that they are going to play the final countdown game. Give each group a set of 1—10 flash cards, and ask them to shuffle them and put them in the middle of the table. Tell the pupils to choose a number card, take that number away from 99 and write down the answer. Ask them to choose another card, then subtract that number from their answer. Tell them to repeat until they can't subtract any more numbers. The group with the lowest number is the winner.	Teach How? Telling the time, as shown left.	Hold up the clock. Move the hands to make times, and ask the pupils to say the time. Continue until most of the pupils have had a turn. Ask, 'If it is 5 past 4 now, what time will it be in 10 minutes?' Tell the groups to move the hands on their card clocks to find the answer. Ask, 'If it is 5 to 7 now, what time will it be in 10 minutes?'	 Write these times on the chalkboard and ask the groups to write the time 10 minutes after each time in their exercise books: 10 past 9 = 20 to 8 = 25 to 11 = 6 o'clock = 5 to 9 = 10 to 12 = half past 8 = quarter to 6 = quarter past 12 = half past 6 = Tell the groups to use the card clocks to help them work out the times. 	Ask the class the following questions: 'How many days are there in a week?' 'How many days are there in a year?' 'How many months are there in a year?' Ask the class to say the names of the months with you, in order.

Week 19:Day 4:Statistics
and time24-hour clock

Lesson

title

Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson: Have ready an analogue clock
Use renaming to subtract two-digit numbers.	and a digital clock, eg: on a mobile phone. Read How? Digital clock, as shown below.
Convert analogue times to 24-hour digital times.	

Analogue clock/

Digital clock

How? Digital clock



Show the time for midnight on the digital clock and the analogue clock. Show the hours from 1am to midday on both clocks.

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Write both times on the chalkboard.

Choose pupils to write the times from 1pm to midnight. Ask the pupils to

Ask the pupils to say the digital and analogue times with you.

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11/11/16 3:43 PM

15 minutes	10 minutes	25 How minutes		10 minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Whole class teaching	Pair task		Whole class teaching
Write '76 – 28 =' on the chalkboard.	Ask the class to say how many hours there	Explain that digital time does not break up the	Write the following times on the chalkboard for the	Write the following word problems on the chalkboard:
Set the sum out vertically, expand the numbers and rename them:	- are in a day. Remind the class that	24 hours of the day into - two halves.	pairs to write as digital times in their exercise books: - 6pm, 8pm, 2pm, 5am, 7am,	'Tunde starts work at 08:00 and finishes at 16:00.
T U 7 6	we say 'am' for times from midnight to midday and 'pm' for times from	am Ask a pupil to write 2am Arrow and a pupil to write 2am Arr	How long does he work for?' 'Lola leaves home at 14:00 and returns at midnight.	
- <u>2 8</u> Step 1:	midday to midnight. Ask some pupils to		How long is she away from home?'	
70 + 6 - 20 + 8	say what they do at 11am and 11pm.		Read and explain the problems to the class,	
Step 2:	Repeat, with 8am and 8pm, and 6am and 6pm.	Ask a pupil to write 2pm as digital time.	-	then ask the pairs to work them out.
$ \begin{array}{r} 60 + 16 \\ - \ \underline{20 + 8} \\ 40 + 8 \end{array} $	Remind the class that an analogue clock breaks the day into two halves.	Explain that it is 14:00 because it is two hours after 12:00.	-	Choose some pairs to say the answers to the class.
40 + 8 = 48 76 - 28 = 48 Write this sum on the chalkboard for pupils to complete: $82 - 36 =$	It measures 12 hours for 'am' times and 12 hours for 'pm' times.	Repeat with 3pm (three hours after 12 so it is 15:00).	-	

digital times.

Clock cards/Analogue clock/ Digital clock

Week 19:Day 5:Statistics
and timeDigital time

Lesson title

Learning outcomesPreparationBy the end of the lesson,
most pupils will be able to:Before the lesson:
Make a set of analogue and digital clock
cards for each group, as shown below
in How? Clock matching game and shuffle
each set well.

Have ready an analogue clock and a digital clock.

How? Clock matching game



Show the 4 o'clock card and the matching analogue and digital clock time cards. Give the groups a set of analogue and digital time cards.



Ask the groups to match the analogue times with the digital times.

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15 minutes	10 minutes		25 How minutes	10 Analogue clock minutes
Daily practice	Introduction		Main activity	Plenary
Pair task	Whole class teaching		Group task	Whole class teaching
Write the following word problems on the chalkboard:	Ask, 'How many minutes are there in an hour?'	Choose some pupils to help you convert the	Play How? Clock matching game, as shown left.	Make times on the analogue clock and choose
'Sabo had 44 apples in a box. He sold 27. How many are left?'	Explain that on analogue clocks we break each hour into two halves.	following times to digital on the chalkboard: 10 past 6 in the evening, 20 to 9 in the morning, half past 4pm, quarter to 11 at night.	Write the following times on the chalkboard: 10 past 6am	- some pupils to say them. Ask them to write the times as digital times on
'There are 93 books on a shelf. The teacher takes 58. How many are left?'	We say the first 30 minutes are 'past' the hour and the next 30 minutes are 'to' the hour.		25 past 7am quarter past 9am 10 to 7am 20 past 6pm	the chalkboard.
Read and explain the problems and ask the pairs to say the calculations needed.	Explain that on a digital clock, we count all the 60 minutes. So 20 to 8 o'clock		half past 9pm Ask the groups to say the times as 24-hour digital times.	-
Tell the pairs to complete the problems in their exercise books.	 in the morning is 07:40 because 40 minutes have passed since 7am. 		Remind them to change the hour to the 24-hour time for the pm times.	-
			Ask the groups to write the 24-hour digital times in their exercise books.	-

Grade/ Type of lesson plan	Lesson title			
Weekly page	Week 20:	Words/phrases	Rhymes	Learning expectations
Primary 4, numeracy lesson plans	Time problems	Write these words on the chalkboard and leave them there for the week. calendar	Write this rhyme on the chalkboard and leave it there for the week. Days in the months:	By the end of the week: All pupils will be able to: Use a calendar to say what
		leap year date number line slow fast hour boundary	30 days have September, April, June and November. All the rest have 31 Except February alone, Which has 28 days clear And 29 in each leap year.	day a date falls on. Most pupils will be able to: Use a number line to calculate time problems.
		day boundary timetable journey times	And 29 in each leap year.	Some pupils will be able to: Use a timetable to calculate how long a journey takes.

Assessment task		Example of a pupil's work		
Instructions: 1 Ask individual pupils to use the November calendar on the chalkboard and tell you what day of the week 22nd November was. 2 Ask individual pupils to tell you the time difference between 9.45 and 10.25, using a number line. 3 Ask individual pupils to use the Nigerian train timetable	4 Ask individual pupils to calculate the time a journey takes from Lagos to Kano.	Example of a pupil's work This pupil can: Use a train timetable to calculate the time a journey will take. Use a number line to calculate time differences.	Timetable Departs: Lagos Friday 09:25 Arrives: Kano Saturday 14:55 35 mins 2 hrs $12 hrs$ $14 hrs$ $55 mins09:25$ $10:00$ $12:00$ $12:00$ $14:00$ $14:5509:25$ $12:00$ $12:00$ $14:00$ $14:5514 hrs$ $53 mins = 1 hr 30 mins35 mins + 55 mins = 1 hr 30 mins14 hrs + 12 hrs + 2 hrs = 28 hrs28 hrs + 1 hr 30 mins = 29 hrs 30 mins$	
and tell you how long the journey from Lagos to Kano will take.			28 hrs + Thr somins 3 2912 some	

Lesson title

Week 20:Day 1:Time
problemsA calendar

Learning outcomes	Preparation
By the end of the lesson,	Before the lesson:
most pupils will be able to:	Have ready the card clocks from Week 19
Say the time 10 minutes before a given time. Work out the length of time between dates, using a calendar.	(last week) for each group.
	Write the Days in the months rhyme
	on the chalkboard, as shown on this week's weekly page.
	Read How? Calendar, as shown below.

Card clocks/



Ask some pupils to help you make a November 2014 calendar on the chalkboard. Ask some pupils to find what day the 27th was on. Repeat with other dates. Ask, 'How many Mondays are there?' Ask, 'Can you work out which day December 2nd falls on?' (Wednesday). Ask, 'Can you work out which day was October 29th?'

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15 Card clocks minutes	10 Rhyme minutes	25 How minutes		10 Rhyme minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Whole class teaching	Whole class teaching	Group task	Whole class teaching
Give a card clock to each group.	Choose some pupils to help you write the — months of the year on	Teach How? Calendar, as shown left.	Write on the chalkboard: 'It is my birthday on — October 24th. I am having	Tell the pupils to say the Days in the months rhyme with you.
Ask the groups to make the following times	the chalkboard.	Ask, 'If it is November 24th now, what date will it	a party on the Saturday after my birthday. When is	Ask them to write the
on the clocks:Ask the class:10 to 7'How many days are5 to 6there in a year?'	be in 2 weeks?' Choose some pupils	my party? How many days is it after my birthday?'	number of days in each month in their exercise books.	
half past 1 quarter to 8 20 past 2 How many months are there in a year?'	'How many months are	to explain how to solve the problem, helping them to count the days	problem, helping to count the days Ask the groups to discuss the answer and choose a group to explain	
25 to 7 10 past 4	Remind them that some months have different	 into the next month and the previous month. 	their answer.	_
5 past 1 2 o'clock	numbers of days.		Give each group a different date, eg: November 10th,	
After they make each	Ask them to say the Days in the months rhyme	_	3rd, 18th, 2nd.	_
time ask the groups, 'What time was	with you and explain it.		Ask them to work out what the date and day is	
it 10 minutes earlier?'	Ask pupils to help you to write the number		10 days later.	
	of days in each month on the chalkboard.		Tell the groups to say their answers and ask the class if they agree.	

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Lesson	
title	

Week 20: **Day 2: Time number** Time problems lines

	Card clocks
Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson: Have ready the card clocks from
Work out the correct time if a clock is fast or slow.	Week 20, Day 1 (yesterday). Read How? Time number line,
Use a number line to calculate time problems.	as shown below.

How? Time number line



Ask the pupils, 'If it is 05:15 now, what will the time be in 15 minutes?'

Explain how to solve the problem

Ask, 'If it is 06:15 now, what will with a number line. the time be in 35 minutes?'

Repeat with, 'If it is 06:25 now, what will the time be in 45 minutes?'



hour boundary.

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15 Card clocks minutes	10 How minutes	25 minutes		10 minutes
Daily practice	Introduction	Main activity		Plenary
Group task	Whole class teaching	Whole class teaching	Group task	Whole class teaching
Explain that sometimes clocks can go wrong and become too slow or too fast.	Teach How? Time number line, as shown left.	Write the following word problems on the chalkboard, then read and explain them:	Ask the groups to complete the problems in their exercise books, using a number line.	Ask one or two groups to draw the number line they used for one of the word problems on
Ask the groups to make 25 past 2 on their card clocks.		'Musa leaves home at 07:45. It takes him	Tell the pupils they can expand the minutes	 the chalkboard. Ask them to explain
Tell them that the clocks are 10 minutes slow and ask them to show the		20 minutes to walk to school. When does he get to school?'	in any way to make them easier to count on.	their calculations and ask the rest of the class if they agree.
real time (25 to 3).		'Break lasts 45 minutes. It starts at 11:20.		
Tell them to return the time to 25 past 2.		When does it finish?'		
Tell the groups that the clocks are 10 minutes fast and ask them		'Taibat reads for 50 minutes. She starts at 10:30. When does she finish?'		
o show the real time quarter past 2).		'The clock says 02:15. It is 50 minutes slow.		
Repeat with different times.		What is the real time?'		
Ask the groups to try to work out the correct times without using the clocks.				

Lesson title

Week 20: **Day 3:** How much time Time problems has passed?

Learning outcomes	Preparation
By the end of the lesson, most pupils will be able to:	Before the lesson:
Add minutes on	Read How? Time passed number lines, as shown below.
a digital clock.	us shown below.
Calculate time that has passed using a number line.	

How? Time passed number lines



Ask, 'If Sabo walks from 6:10 until 7:20, how long does he walk for?'



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Draw a number line and count the jumps. Explain that 70 minutes = 1 hour and 10 minutes.

Draw a number line from 3:05 to 5:15 and ask, 'How much time has passed?'



Add up hours and minutes together to find the answer.

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15 minutes	10 minutes	25 How minutes		10 minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Whole class teaching	Whole class teaching	Individual task	Whole class teaching
Ask the class to write the following as digital times on the chalkboard: 10 past 8 in the morning 5 to 9pm 25 past 4 in the afternoon quarter to 12am Write the following digital times on the chalkboard: 11:45, 04:05, 02:55, 12:40, 09:50. Tell the pupils that these times are 10 minutes slow and ask them to write the correct times in their exercise books.	Ask the pupils, 'How many minutes are there in an hour?'Ask some pupils to help you change 250 minutes to hours on the chalkboard: $250 \div 60 =$ H T U $2 5 0$ $- \frac{1 2 0}{1 3 0} (60 \times 2 = 120)$ $= \frac{1 2 0}{1 0} (60 \times 2 = 120)$ $= \frac{1 2 0}{1 0}$ Add the hours and the remaining minutes: 4 hours	Teach How? Time passed number lines, as shown left. Write the following word problems on the chalkboard: 'Musa went shopping at 09:30. He arrived home at 10:45. How long was he out?' 'A lesson starts at 08:15 and finishes at 10:10. How long does the lesson last?' 'Jamila arrived at the party at 14:03. She left at 16:10. How long did she stay at the party?'	Ask the pupils to complete the word problems in their exercise books. Tell them to use a number line. Go round the class and help pupils.	 Choose a pupil to explain, on the chalkboard, how they solved the first word problem. Ask the class to say if they are correct and if not, to explain why.
Remind them to add 10 minutes to each time and take care crossing the hour boundary.	and 10 minutes. Ask the pupils to write 180 minutes and 210 minutes as hours and minutes in their exercise books.	Read and explain the problems.		

Week 20:	Day 4:	Learning outcomes	Preparation
Time	A train timetable	By the end of the lesson,	Before the lesson:
problems		most pupils will be able to:	Copy the Nigerian train timetable
•		Subtract minutes on a digital clock.	from the introduction, shown right, on to a large piece of card.
		Use a timetable to calculate journey times.	Read How? Journey times, as shown below.

Journey times



Draw a number line starting at 18:00 on Wednesday and finishing at 14:00 on Thursday. Calculate the time that passes, and explain that this crosses the 24-hour boundary. 2+4+14=20hrs.

Add up the hours.

Demonstrate finding the time of the train from Kano to Lagos on the train timetable. Calculate how long the journey takes using a number line.

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15 minutes	10 Train timetable minutes		25 How Train timetable	10 minutes
Daily practice	Introduction		Main activity	Plenary
Pair task	Pair task		Whole class teaching	Whole class teaching
Tell the class that your digital clock says 11:05 but it is 15 minutes fast. Use a number line to	Show the class the time- table below:	Ask the pairs questions about the train timetable, eg:	Ask 'How many hours are there in a day?'	explain, on the chalkboard, how they solved that the first word problem
	Nigerian train timetable:	'When can I travel from Lagos to Kano?' 'When can I travel from Lagos to llorin?' 'What time is the train from Kano to Lagos?'	Explain to the pupils that they are going to work	
count back to find the answer (10:50).	Lagos – Ilorin (Tuesdays, Fridays and Saturdays) Departs: Iddo 09:00 Arrives: Ilorin 18:34 Lagos – Kano (Every Friday) Departs: Iddo 12:00 Arrives: Kano 17:01 (the next day)		out times that cross the 24- Ask hour (day) boundary. say	Ask the rest of the class to say if they are correct and if not, to explain why.
Write the following times on the chalkboard: 10:15, 12:03, 08:13.			Teach How? Journey times, as shown left.	
		Choose some pairs to point to the answers in the train timetable.	Write the following word problems on the chalkboard and discuss:	
Explain that these times are 20 minutes fast.				
Ask the pairs to calculate the real times in their exercise books, using a number line to help them.	Kano – Lagos (Every Monday) Departs: Kano 09:00 Arrives: Lagos 14:24 (the next day)		'How long is the journey from Lagos to Ilorin?'	
			'How long is the journey from Offa to Kano?'	
	Offa – Kano (Every Tuesday) Departs: Offa 22:00 Arrives: Kano 18:05 (the next day)		'How long is the journey from Lagos to Kano?'	
			Ask the groups to calculate the answers using a number line and the train timetable.	

Lesson title

Week 20: **Day 5:** Multiplication time problems Time problems

Learning outcomes	Preparation		
By the end of the lesson, most pupils will be able to:	Before the lesson:		
Say the numbers of days in each month.	Make a set of month flash cards for each group.		
Calculate multiplication time problems.	Write the Days in the months rhyme from Week 20, Day 1 (earlier this wee on the chalkboard.		
	Read How? Months, as shown below.		

Flash cards/

Rhyme

How?

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Ask the groups to shuffle the month flash cards.

Ask them to arrange them in the correct order on their desks.

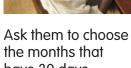
Ask the groups to choose the months that have 31 days.

the months that have 30 days.

Ask them to hold up the first month of the year, the seventh month, and so on.

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15 How Rhyme	10 minutes	25 minutes		10 Rhyme minutes
Daily practice	Introduction	Main activity		Plenary
Whole class teaching	Whole class teaching	Whole class teaching	Individual task	Whole class teaching
Ask each group to read the Days in the months	 Write the following on the chalkboard and ask the pupils to help you fill in the missing numbers: seconds in a minute. minutes in an hour. hours in a day. days in a week. weeks in a year. days in a year. days in a year. Ask the pupils how they could calculate the number of days in six weeks, ie: 6 x 7 = 42. 	on the chalkboard: 'A hen lays four eggs every week. How many eggs does she lay in a year?' Ask a pupil to write the calculation needed: $52 \times 4 =$ Remind the class how to use the grid method: $\frac{x 50 2}{4 200 8}$ 200 + 8 = 208 eggs on the chalkboard, then read and explain them 'How many hours are there in six days?' 'How many minutes are there in five hours?' 'Sani saves N20 every d How much does he save in a week?' 'If Asabe reads six book every month, how mand does she read in a yea Ask the pupils to comp the problems in their exercise books, using	Write these word problems on the chalkboard, then	Days in the months rhyme. Tell the pupils the correct time. Ask some pupils to say what the time will be 30 minutes later and what time it was 10 minutes earlier. ay.
rhyme with you. Teach How? Months, as shown left.			'How many hours are	
			- 'How many minutes are	
			'If Asabe reads six books every month, how many does she read in a year?'	
			exercise books, using the grid method for the	

Credits

Special thanks go to

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