



Year 6 Daily Maths
Weeks 1/2/3
GS and NC Group

Maths Week 1 Lesson 1

Workspace for video lesson

W1 L1 Sats Questions

For work in video lesson

Here are six cards.

$\times 10$

$\times 100$

$\times 1000$

$\div 10$

$\div 100$

$\div 1000$

Use a card to complete each calculation.

$$5.3 \boxed{} = 0.53$$

$$5.3 \boxed{} = 5300$$

$$5.3 \boxed{} = 0.053$$

Complete these calculations.

$$15 \times 100 = \boxed{}$$

$$\boxed{} \times 10 = 1500$$

$$\boxed{} \div 100 = 150$$

$$150 \div 10 = \boxed{}$$

Here are five number cards.

0.47

10

100

1000

4.07

Use **four** of the cards to complete these calculations.

$$47 \div \boxed{} = \boxed{}$$

$$\boxed{} \times \boxed{} = 40.7$$

W1 L1 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Complete this table with the missing numbers.

One row has been done for you.

Number	1,000 more
3,500	4,500
85	
	9,099
	15,250

Write the missing number to make this **division** correct.

$$75 \div \boxed{} = 7.5$$

Complete the number sentences using these cards.

$\times 10$	$\div 10$	$\times 100$	$\div 100$
-------------	-----------	--------------	------------

$$25 \boxed{} = 2.5$$

$$7 \boxed{} = 0.07$$

$$3.6 \boxed{} = 360$$

Maths Week 1 Lesson 2

Workspace for video lesson

W1 L2 Sats Questions

For work in video lesson

Jacob cuts 4 metres of ribbon into **three** pieces.

The length of the first piece is **1.28** metres.

The length of the second piece is **1.65** metres.

Work out the length of the third piece.

Show your method

metres

A bottle holds **1 litre** of lemonade.

Rachel fills **5** glasses with lemonade.

She puts **150 millilitres** in each glass.

How much lemonade is left in the bottle?

Show your method

ml

A packet contains **1.5 kilograms** of guinea pig food.

Remi feeds her guinea pig **30 grams** of food each day.

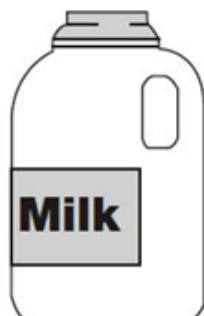
How many days does the packet of food last?

Show your method

days

For after the video. Answers are in the back of this booklet to self-mark.

Jack pours out half a litre.



How much milk is left?

A jug holds 500 millilitres.

How many jugs of water does Megan need to fill an empty bucket?

Show
your
method

Put these masses in order, starting with the heaviest.

800 g $\frac{1}{2}$ kg 1 kg 60 g

heaviest

Maths Week 1 Lesson 3

Workspace for video lesson

For work in video lesson

Liam, Sarah and Amy buy lunch at a salad bar.

salad bar			
Salads		Desserts	
cheese	£1.20	banana	25p
egg	90p	apple pie	50p
tuna	£1.60	yogurt	35p

Liam has £2.50 to spend.

He buys a tuna salad and an apple pie.

How much money has he got left?

p

Sarah buys a cheese salad and a yogurt.

Amy buys an egg salad.

How much more does Sarah pay than Amy?

Emily, Ben and Nisha take part in a sponsored swim to collect money for charity.

Emily collects £2.75 more than Nisha.

Ben collects £15

Nisha collects £7 **less** than Ben.

Altogether how much money do the three children collect?

Show
your
method

£

For after the video. Answers are in the back of this booklet to self-mark.



£1.64

How much change does John get?

Show
your
method

£

- 8,728 more toy cars were delivered
- 9,473 toy cars were sold.

How many toy cars were left in the shop at the end of June?

Show your method

Write the three missing digits to make this addition correct.

5	3	2		9
+	7	4	2	
	0	6	7	6

Maths Week 1 Lesson 4

Workspace for video lesson

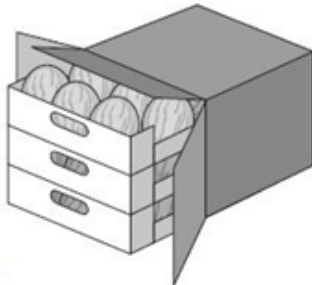
W1 L4 Sats Questions For work in video lesson

For work in video lesson

A box contains trays of melons.

There are 15 melons in a tray.

There are 3 trays in a box.



A supermarket sells 40 boxes of melons.

How many melons does the supermarket sell?

Diagram illustrating a large rectangular area divided into a grid of smaller squares, labeled "Show your method" and "melons".

50 children need **two** pencils each.

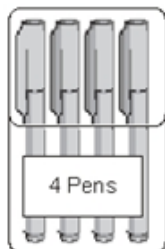
There are 20 pencils in a box.



How many boxes of pencils are needed?

boxes

50 children need one pen each.



Pens are sold in packs of 4

How many packs of pens need to be bought?

packs

Write the **three** missing numbers in this multiplication grid.

×	8	5	
4		20	28
5	40		35
3	24	15	21

W1 L4 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Dev has a bag of 50p coins and Holly has a bag of 20p coins.



Dev's bag



Holly's bag

Both bags have the same amount of money in.

There are **thirty** 50p coins in Dev's bag.

How many 20p coins are there in Holly's bag?

Show
your
method

20p coins



Write the correct symbol in each box to make the statements correct.

11×12

15×10

$90 \div 30$

$60 \div 20$

$120 \div 4$

$160 \div 8$

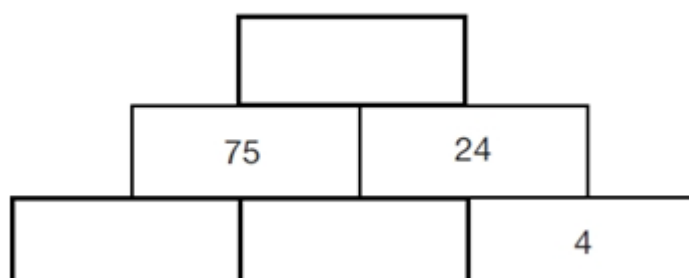
30×8

100×10

In this tower, two numbers are **multiplied** to give the number above.



Write the missing numbers in the tower below to make it correct.



Maths Week 2 Lesson 1

Workspace for video lesson

W2 L1 Sats Questions

For work in video lesson

Write the missing numbers.

Factors of 20 = {1,,,,, 20}

1 mark

Write **one** number which fits **all three** of these statements.

It is a multiple of 4

It is a multiple of 6

It ends in '8'



1 mark

Explain why a number which ends in '3' **cannot** be a multiple of 4

The factor pairs of 8 are

1 and 8

2 and 4

Write all the factor pairs of 42

1 and 42

2 and

and

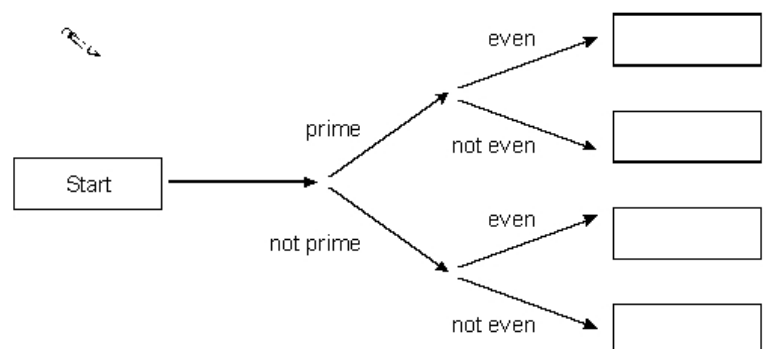
6 and

Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.

9 17 20



W2 L1 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

- 5) Write down all the factor pairs of **48** in the box below. One has been done already.

Every number
has at least
two factors:
1 and itself.



1 and 48

1 mark

- 6) Write down all the common factors of **10** and **25**.

1 mark

- 7) Circle the prime numbers in the box.

2	7	9	17	27
31	39	45	49	

- 9) Write a prime number in each box to make these calculations correct.

$$\square \times \square = 15$$

$$\square \times \square \times \square = 70$$

Maths Week 2 Lesson 2

Workspace for video lesson

W2 L2 Sats Questions

For work in video lesson

Sam and Ben share a pizza with their Dad.

Sam ate $\frac{1}{3}$ of the pizza.

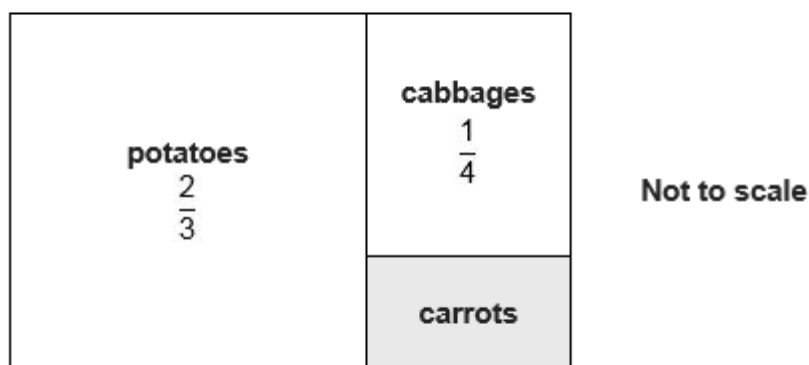
Ben ate $\frac{1}{6}$ of the pizza.

Dad ate the rest.

What fraction of the pizza did Dad eat?

This is a diagram of a vegetable garden.

It shows the fractions of the garden planted with potatoes and cabbages.



The remaining area is planted with carrots.

What **fraction** of the garden is planted with carrots?

Complete the number sentences.

$$\frac{3}{4} \div \boxed{} = \frac{3}{12}$$

$$\boxed{} \div 5 = \frac{2}{13}$$

W2 L2 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Caley and Shaun have made a lasagne pie.

Caley eats $\frac{3}{8}$ of it and Shaun eats $\frac{1}{2}$.

How much more of the lasagne pie did Shaun eat than Caley?

Circle the correct answer in each box.

$$5\frac{2}{9} + 4\frac{2}{3} = \boxed{\begin{array}{c} 10\frac{4}{9} \\ 9\frac{4}{12} \\ 9\frac{8}{9} \end{array}}$$

$$3\frac{3}{5} - 1\frac{2}{3} = \boxed{\begin{array}{c} 2\frac{1}{2} \\ 1\frac{1}{12} \\ 1\frac{14}{15} \end{array}}$$

Work out each of these calculations. Simplify your answers.
One has been done for you.

$$\frac{3}{5} \times \frac{5}{6} = \frac{3 \times 5}{5 \times 6} = \frac{15}{30} = \frac{1}{2}$$

Multiply together the numerators.

Multiply together the denominators.

$$\frac{4}{9} \times \frac{3}{11} = \dots\dots\dots$$

$$\frac{5}{12} \times \frac{1}{8} = \dots\dots\dots$$

$$\frac{2}{3} \times 15 = \dots\dots\dots$$

Rachel knits a scarf with **12** stripes.

Each stripe on the scarf uses $\frac{3}{4}$ of a ball of wool.

How many balls of wool does she use?

Maths Week 2 Lesson 3

Workspace for video lesson

W2 L3 Sats Questions

For work in video lesson

Calculate $\frac{7}{16}$ of 288

Calculate $\frac{3}{8}$ of 980

Calculate $\frac{3}{4}$ of £15

Calculate $\frac{1}{5}$ of 325

On Saturday Lara read $\frac{2}{5}$ of her book.



On Sunday she read the **other** 90 pages to finish the book.

How many pages are there in Lara's book?

Show
your
method

pages

In a class, 18 of the children are girls.

A quarter of the children in the class are boys.

Altogether, how many children are there in the class?



Show
your
method

W2 L3 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Match each box to the correct number.

One has been done for you.



$\frac{1}{2}$ of 30	45
$\frac{1}{3}$ of 75	40
$\frac{1}{5}$ of 150	35
	30
	25
	20
	15

Calculate of $\frac{5}{12}$ of **378**

Calculate $\frac{3}{4}$ of **840**

Calculate $\frac{7}{8}$ of **5000**

Maths Week 2 Lesson 4

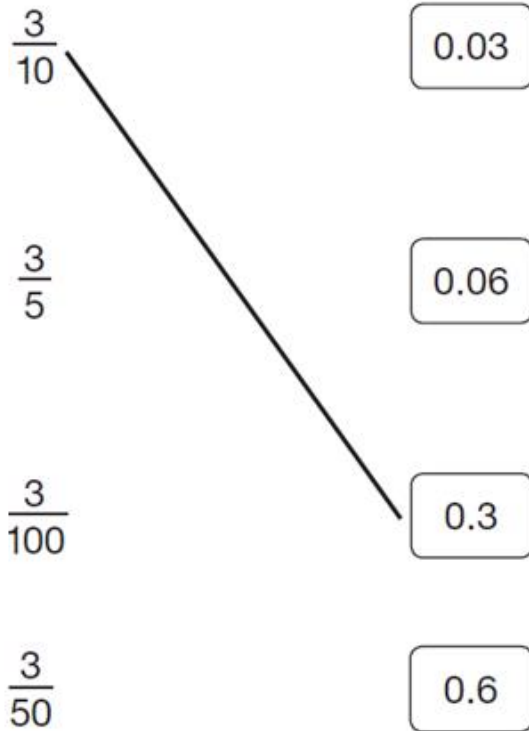
Workspace for video lesson

W2 L4 Sats Questions

For work in video lesson

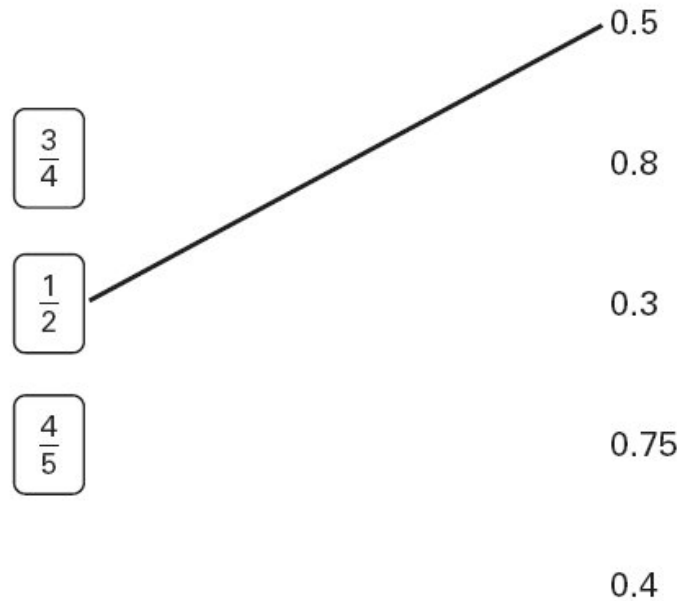
Join each fraction to the correct decimal card.

The first one has been done for you.

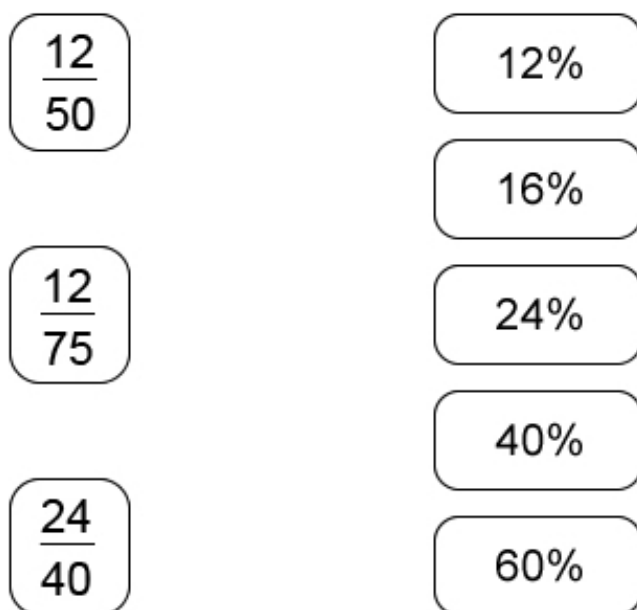


Match each box to the number which has the same value.

One has been done for you.



Match each fraction to its correct percentage equivalent.



W2 L4 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Write these fractions as percentages and decimals.

$$\frac{45}{100}$$

percentage

decimal

$$\frac{9}{10}$$

percentage

decimal

Complete this table. Give all fractions in their simplest form.
One has been done for you.

Fraction	Decimal	Percentage
$\frac{1}{4}$
.....	0.5 $\xrightarrow{\times 100}$	50%
.....	60%

Place these values in order from smallest to largest.

$$\frac{12}{100}$$

10%

0.11

$$\frac{4}{50}$$

smallest \longrightarrow largest

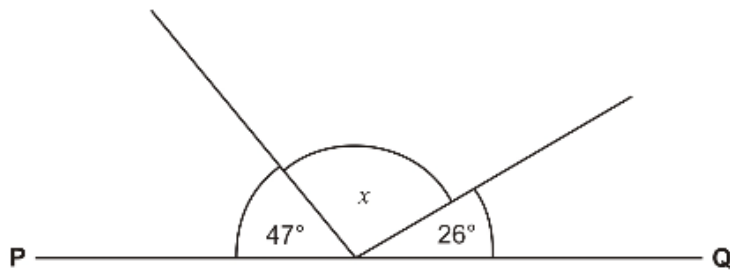
Maths Week 3 Lesson 1

Workspace for video lesson

W3 L1 Sats Questions

For work in video lesson

PQ is a straight line.



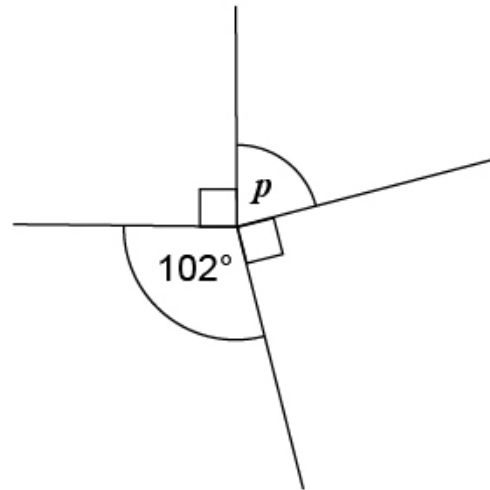
Calculate the size of angle x .

Do **not** use a protractor (angle measurer).

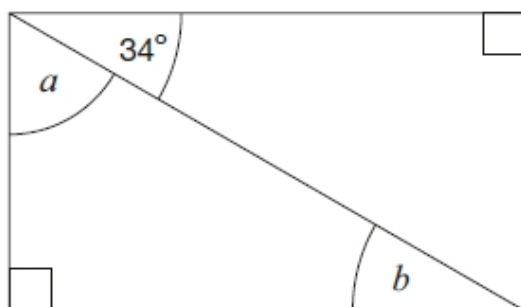
Calculate the size of angle p in the diagram.

Do not use a protractor (angle measurer).

not drawn accurately



Here is a rectangle.



**Not to
scale**

Calculate the size of angles a and b .

Do **not** measure the angles.

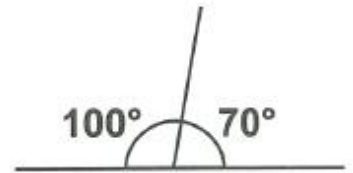
W3 L1 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Sanvi measures two angles that meet on a straight line.

She says the angles are 70° and 100° .

Without measuring, explain why Sanvi cannot be correct.



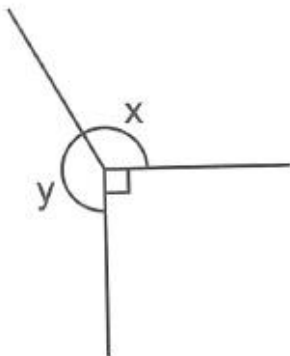
.....

.....

Callum measures angle x to be 120° .

Work out the size of angle y without measuring.

Show your working in the box.



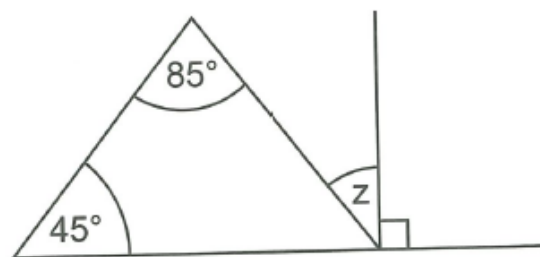
$y = \dots\dots\dots^\circ$

Look at this diagram.

It is not to scale.

Work out the value of angle z .

Show your working in the box.



$z = \dots\dots\dots^\circ$

Maths Week 3 Lesson 2

Workspace for video lesson

W3 L2 Sats Questions

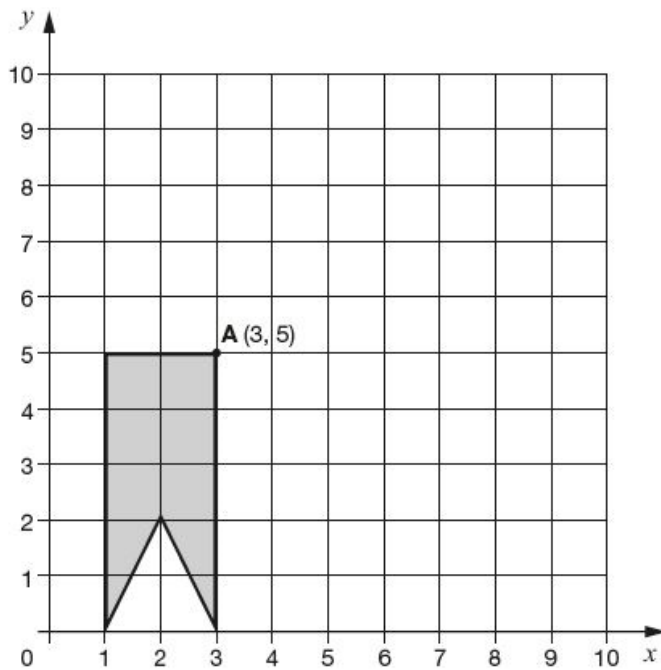
For work in video lesson

Here is a shape on a grid.

The shape is translated so that point **A** moves to (7, 8).

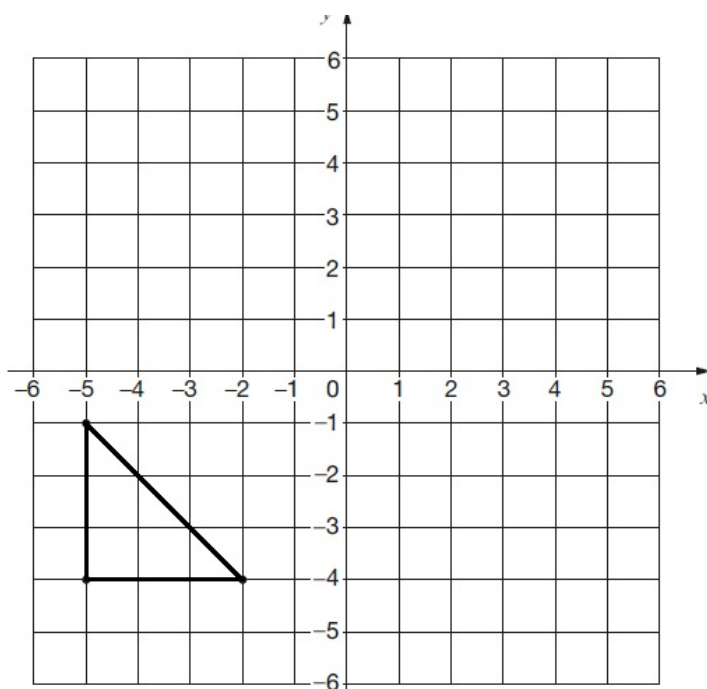
Draw the shape in its new position.

Use a ruler.



The triangle is translated **7 right** and **5 up**.

Draw the triangle in its new position.

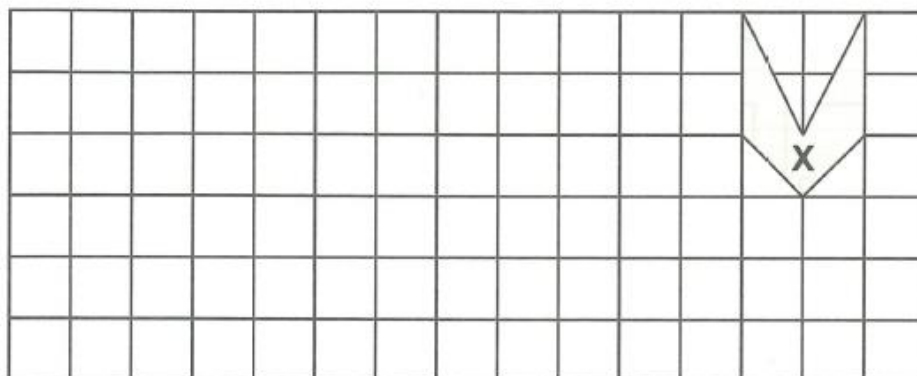


W3 L2 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Shape **X** is translated **9** squares to the left and **2** squares down.

Draw the new position of Shape **X**, and label it **Y**.

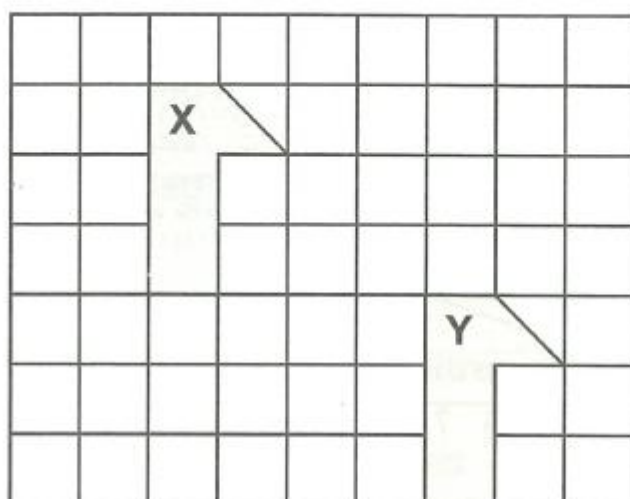


Shape **Y** is translated **5** squares to the right and **1** square down.

Draw the new position of Shape **Y** and label it **Z**.

How would you translate Shape **X** straight to the position of Shape **Z**?

Two identical shapes have been drawn on this grid.



Shape **X** is translated to the same position as shape **Y**.

Describe this translation.

squares and squares

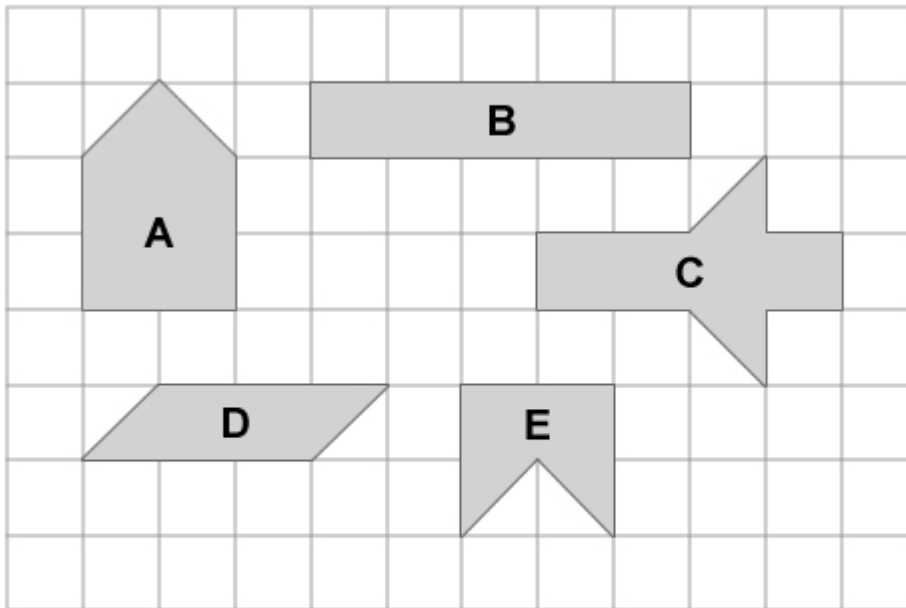
Maths Week 3 Lesson 3

Workspace for video lesson

W3 L3 Sats Questions

For work in video lesson

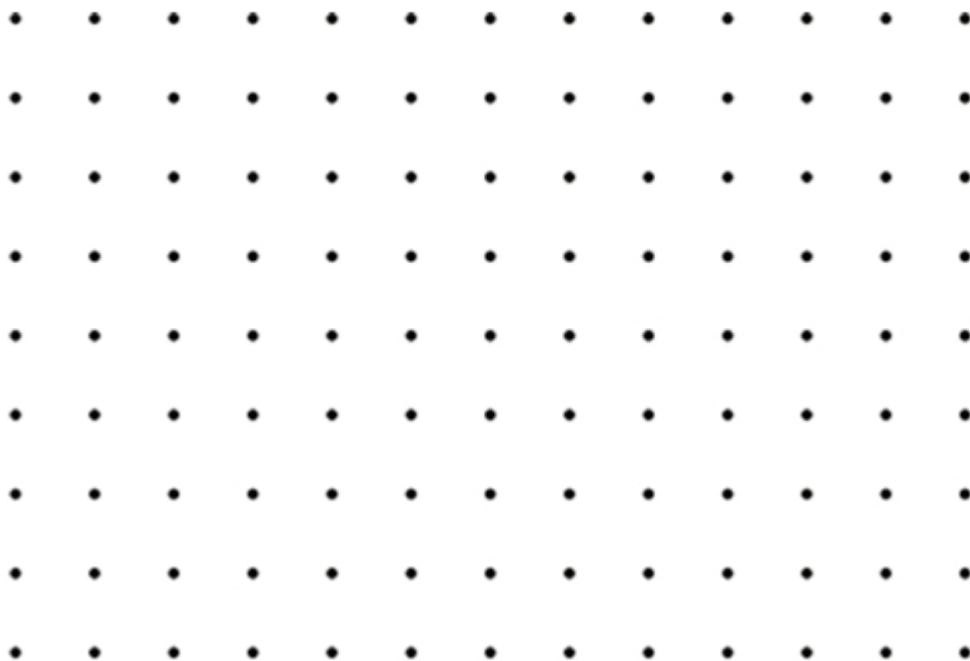
The diagram shows some shapes on a centimetre square grid.



Which two shapes have the same **area** as shape A?

and

Join the dots to draw a rectangle that has an **area** of 20 cm^2 and a **perimeter** of 18 cm.



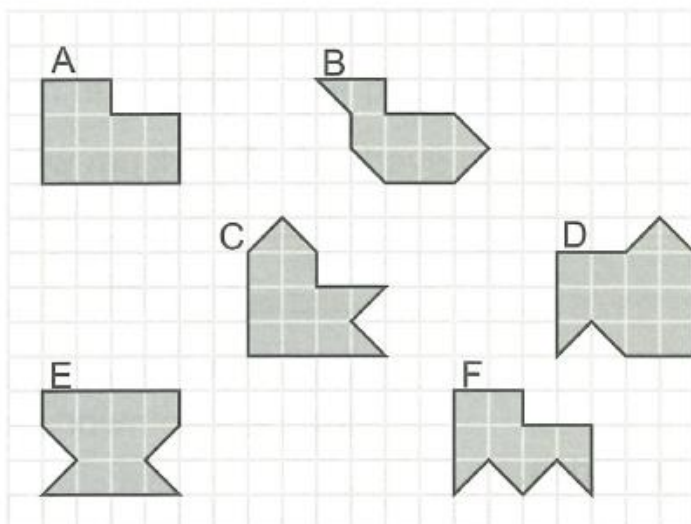
W3 L3 Independent Questions

For after the video. Answers are in the back of this booklet to self-mark.

Here is a centimetre square grid. Draw a shape with an area of 15cm^2 .



These six shapes have been drawn on a grid.



Write the letters of the three shapes that have the same area.

--	--	--

Here is a rectangle.

Use a ruler to accurately measure the rectangle's length and width.

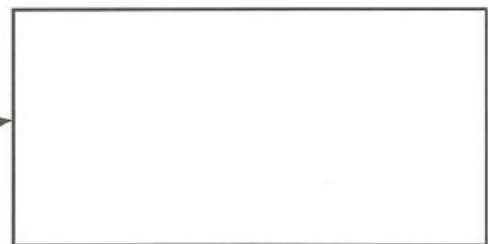
Fill in the boxes with these measurements.

width

cm

length

cm



Work out the area of the rectangle.

Remember:
Area = width \times length

Maths Week 3 Lesson 4

Workspace for video lesson

W3 L4 Sats Questions

For work in video lesson

Seven children measured their heights.

Children	Height (cm)
Stefan	144
Lara	136
Olivia	142
Chen	143
Maria	152
Dev	148
Sarah	150

What is the mean height of the children?

Last year, Jacob went to four concerts.

Three of his tickets cost £5 each.



The other ticket cost £7



What was the **mean** cost of the tickets?

W3 L4 Independent Questions


For after the video. Answers are in the back of this booklet to self-mark.

David has five sisters. Their ages are given here:

2 4 5 9 10

Work out the **mean** of the ages. This question has been done for you.

$$2 + 4 + 5 + 9 + 10 = 30$$
  First, add up all the numbers...

$$30 \div 5 = 6$$
  ... then divide by how many numbers there are.

This will give you the mean
age of David's sisters.

 6

Two groups in a class have a spelling test, marked out of 5.

These are the scores of each person in each group.

Group A:	5	4	1	5	2	3	3	2	4	1
Group B:	3	1	3	0	2	1	3	4	1	2

Work out the mean score for each group.

Group A

.....

Group B

Polly asks **five** friends their shoe size.

The mean size is **3**.

Circle the correct set of values for the five shoe sizes.

2 2 3 3 4

4 2 2 5 2

1 3 3 2 4

Maths Answers

W1 L1

Place value

Award **TWO** marks for three boxes completed correctly as shown:

Number	1,000 more
3,500	4,500
85	1,085
8,099	9,099
14,250	15,250

If the answer is incorrect, award **ONE** mark for two boxes completed correctly.

10

Award **TWO** marks for the sentences completed as shown:

$$25 \quad \boxed{\div 10} \quad = \quad 2.5$$

$$7 \quad \boxed{\div 100} \quad = \quad 0.07$$

$$3.6 \quad \boxed{\times 100} \quad = \quad 360$$

Award **ONE** mark for any two sentences correct.

W1 L2

Measurement

68 (ml) OR 0.068 (l)

Do not accept incorrect units, e.g. 68 l OR 0.068 ml.

Award **TWO** marks for the correct answer of 12

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

6 litres = 6000 ml

6000 ml ÷ 500 ml

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

All masses in the correct order, as shown.

1 kg, 800 g, $\frac{1}{2}$ kg, 60 g

W1 L3

Addition and subtraction

Award **TWO** marks for the correct answer of £6.87

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $£1.49 + £1.64 = £3.13$
- $£10 - £3.13 =$

OR

- $£10 - £1.49 = £8.51$
- $£8.51 - £1.64 =$

OR

- $£10 - 164p - 149p =$

*Answer need not be obtained for the award of **ONE** mark.*

*Accept for **ONE** mark an answer of £687 OR £687p as*

evidence of an appropriate method.

Up to 2 marks

Award **TWO** marks for the correct answer of 1,048

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

- $1,793 + 8,728 = 10,521$
 $10,521 - 9,473$

OR

- $9,473 - 8,728 = 745$
 $1,793 - 745$

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

Award **TWO** marks for numbers completed, as shown:

$$\begin{array}{r} \boxed{5} \boxed{3} \boxed{2} \boxed{4} \boxed{9} \\ + \quad \boxed{7} \boxed{4} \boxed{2} \boxed{7} \\ \hline \boxed{6} \boxed{0} \boxed{6} \boxed{7} \boxed{6} \end{array}$$

Award **ONE** mark for any two numbers completed correctly.

W1 L4

Multiplication and division

Award **TWO** marks for the correct answer of 75

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg:

- $30 \times 50 = 1500$
 $1500 \div 20$

OR

- $30 \times 50\text{p} = \text{£}15$
5 20p coins make £1
 5×15

OR

- $50\text{p} \div 20\text{p} = 2.5$
 30×2.5

*Answer need not be obtained for the award of **ONE** mark.*

Up to 2

Award **TWO** marks for all symbols correct, as shown:

11×12	\leq	15×10
$90 \div 30$	$=$	$60 \div 20$
$120 \div 4$	$>$	$160 \div 8$
30×8	\leq	100×10

Award **ONE** mark for any three symbols correct.

...

Gives the three correct numbers in their correct positions, ie:

1800		
75	24	
12.5	6	4

Accept unambiguous indication

Accept equivalent fractions and decimals, eg:

- accept $12\frac{3}{6}$ for 12.5

W2 L1

Multiples, Factors and Primes

..... 1 mark if one or two are correct,

- 5) 1 and 48, 2 and 24, 3 and 16, 4 and 12, 6 and 8 (1 mark)
- 6) 1, 5 (1 mark)
- 7) 2, 7, 17, 31 (1 mark)
- 8) 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97 (1 mark)
- 9) 3×5 OR 5×3 (1 mark)
 $2 \times 5 \times 7$ (numbers can be in any order) (1 mark)

W2 L2

Adding and Subtracting Fractions

$$\frac{1}{8} \text{ (1 mark)}$$

$$9 \frac{8}{9} \text{ (1 mark)}$$

$$1 \frac{14}{15} \text{ (1 mark)}$$

Multiplying and Dividing Fractions

$$\frac{4}{33}$$

$$\frac{5}{96}, 10$$

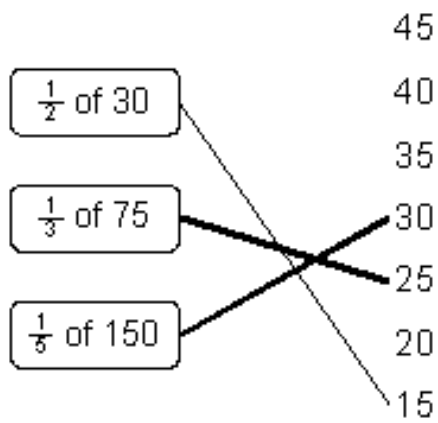
(1 mark for each correct answer)

9 balls (1 mark)

W2 L3

Fractions of amounts

Diagram completed correctly as shown:



157.5 **OR** $157\frac{1}{2}$

630

4375

W2 L4

Decimals, Fractions and Percentages

$$\frac{45}{100} = 45\% = 0.45 \text{ (1 mark)}$$

$$\frac{9}{10} = 90\% = 0.9 \text{ (1 mark)}$$

Fraction	Decimal	Percentage
$\frac{1}{4}$	0.25	25%
$\frac{1}{2}$	0.5	50%
$\frac{3}{5}$	0.6	60%

(1 mark for each correct row)

$$\frac{4}{50}, 10\%, 0.11, \frac{12}{100} \text{ (1 mark)}$$

W3 L1

Angle Calculations

E.g. Angles on a straight line add up to 180° . (1 mark)

$$y = 150^\circ (360^\circ - 120^\circ - 90^\circ)$$

(2 marks if the answer is correct. 1 mark if the answer is wrong but they've tried to subtract from 360° .)

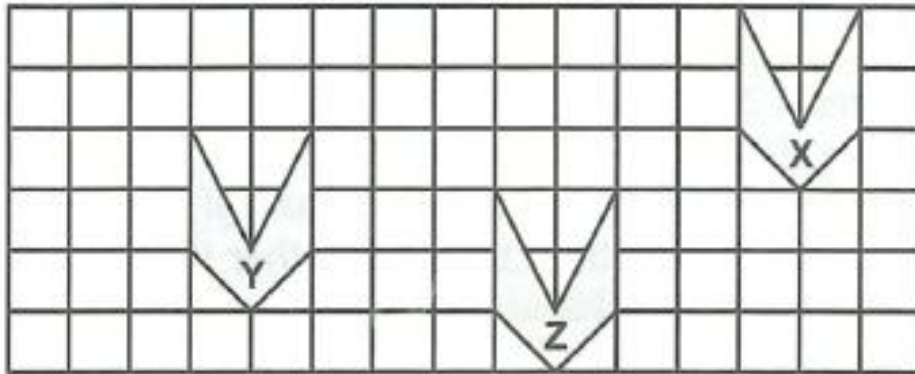
$$z = 40^\circ$$

$$(180^\circ - 45^\circ - 85^\circ = 50^\circ, 180^\circ - 90^\circ - 50^\circ)$$

(2 marks if the answer is correct. 1 mark if the answer is wrong but they've used a sensible method.)

W3 L2

Translation and Reflection



(1 mark for shape Y, 1 mark for shape Z)

4 squares left and 3 squares down (1 mark)

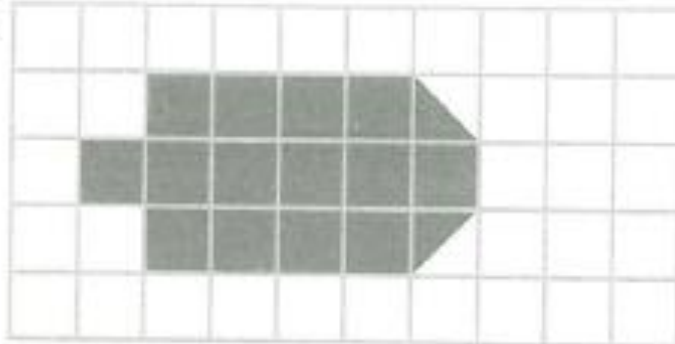
4 squares right and 3 squares down (1 mark)

W3 L3

Perimeter and Area

Any shape that contains exactly 15 whole squares (including combinations of half-squares).

E.g.



(1 mark)

A, C, E (1 mark)

width 3 cm, length 6 cm (1 mark)

area = 18 cm^2 ($3 \text{ cm} \times 6 \text{ cm}$) (1 mark)

W3 L4

Analysing Data

Group A: 3 ($30 \div 10$) (1 mark)

Group B: 2 ($20 \div 10$) (1 mark)

4, 2, 2, 5, 2 (1 mark)