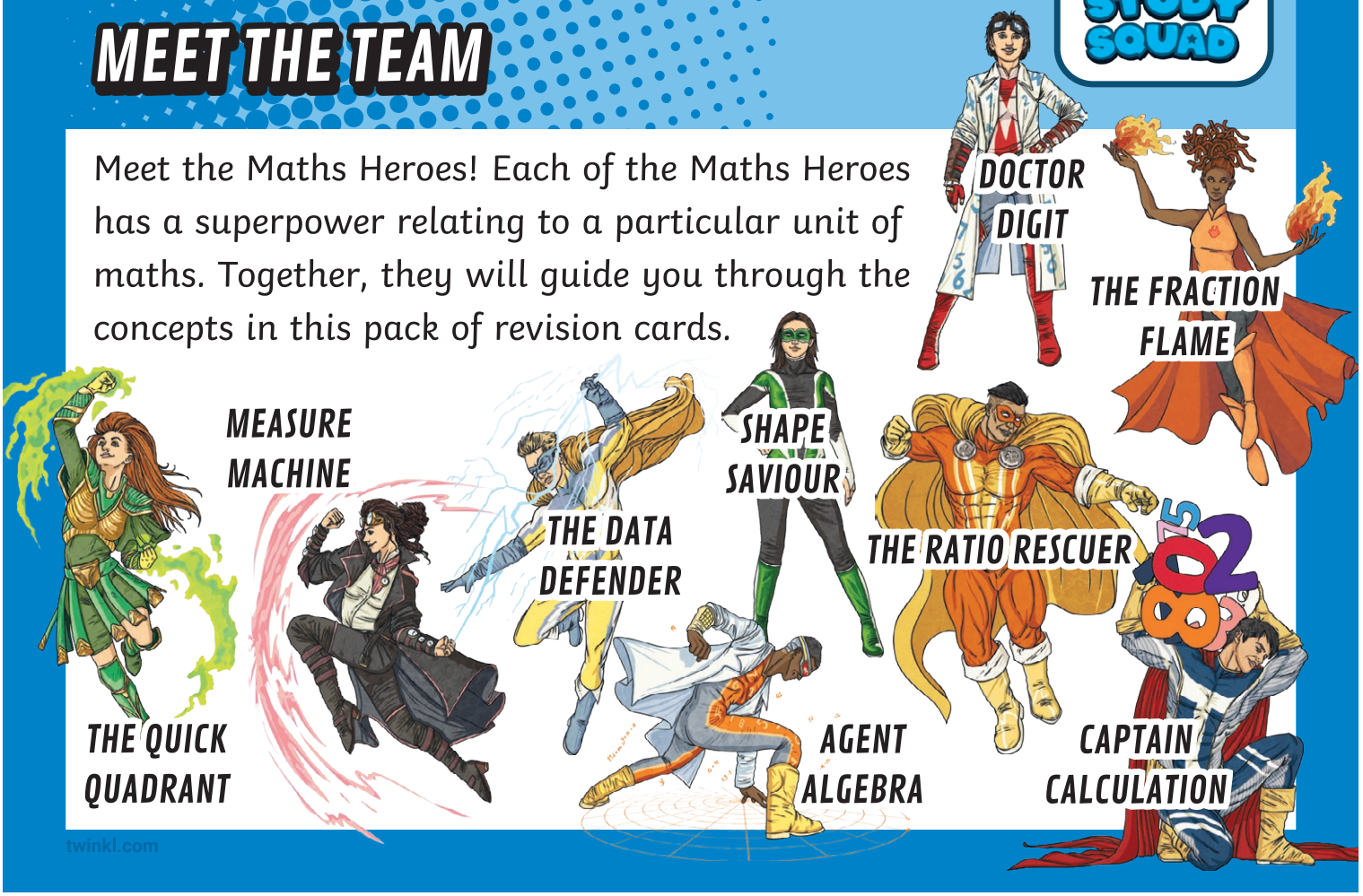
MEET THE TEAM

Meet the Maths Heroes! Each of the Maths Heroes has a superpower relating to a particular unit of maths. Together, they will guide you through the concepts in this pack of revision cards.



KS2 Maths- **SATs Revision Cards**

Ages 10-11

INSTRUCTIONS

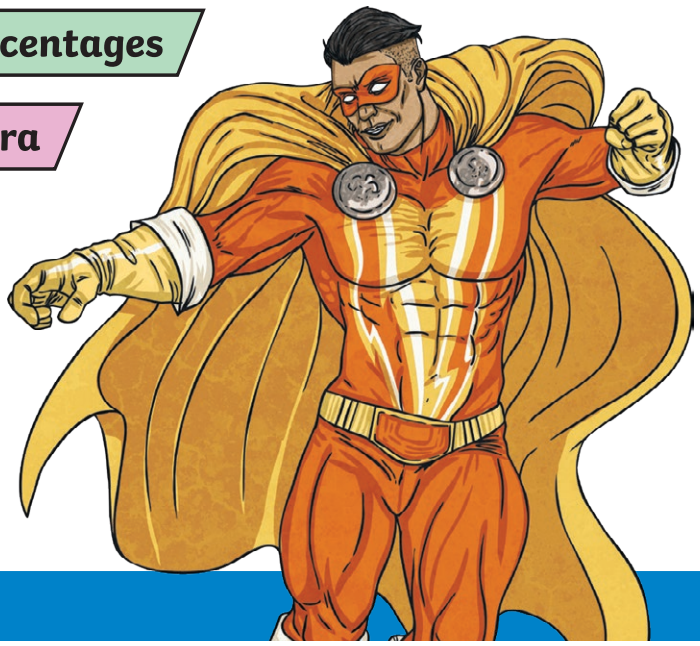
Pick a card from the pack to work on. Read the questions carefully and use **paper or a whiteboard** to complete any working out. When you are ready, **turn the card over** to check your answers.

On each card, there are games and videos to help you **boost your maths superpower**. Scan the **QR codes** using a device with a camera and internet access to continue your hero training.

Are you ready to start your maths mission?

Check out the rest of the SATs Study Squad range, including our SATs Reasoning Workbook.

CONTENTS



KS2 Maths- **SATs Revision Cards**

Ages 10-11

REASONING ABOUT PLACE VALUE

1. What is **807 041** in words?

2. Look at the number **12 306 719**. Which digit is in the **hundred thousands** column?

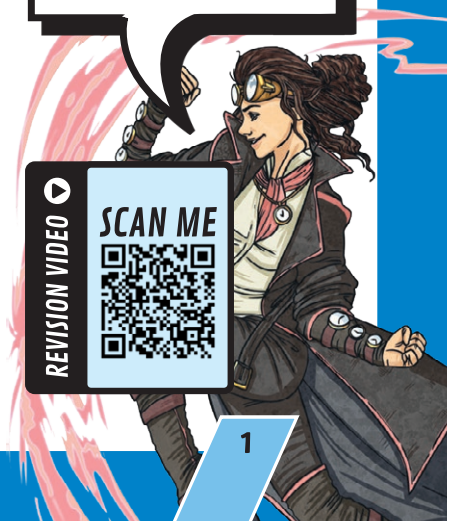
3. The numbers in this sequence **increase** by the **same amount** each time.

   982 108 992 108 1 002 108

   What number comes next in the sequence?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME



KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

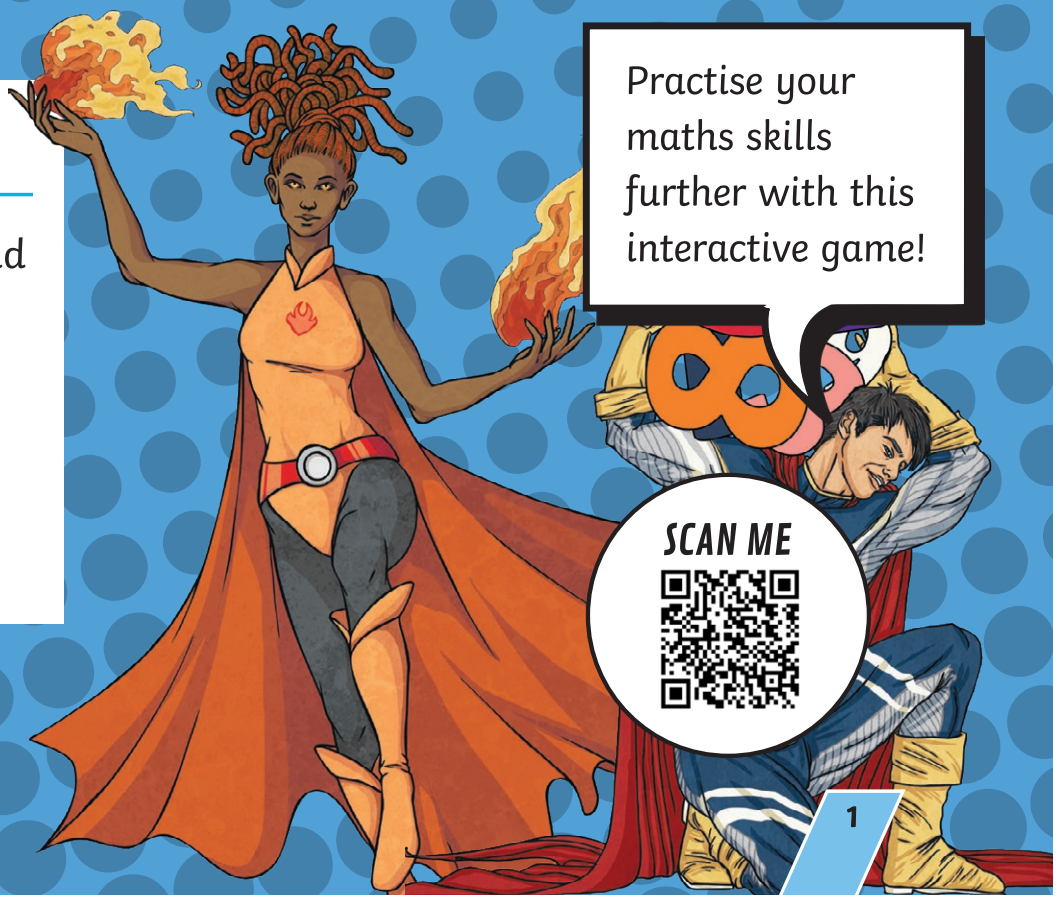
1) eight hundred and seven thousand and forty-one

2) 3

3) 1 012 108

Practise your maths skills further with this interactive game!

SCAN ME



COMPARING AND ORDERING POSITIVE INTEGERS

1 Which number is the **smallest** in value?

3 129 358 3 219 127 3 912 679

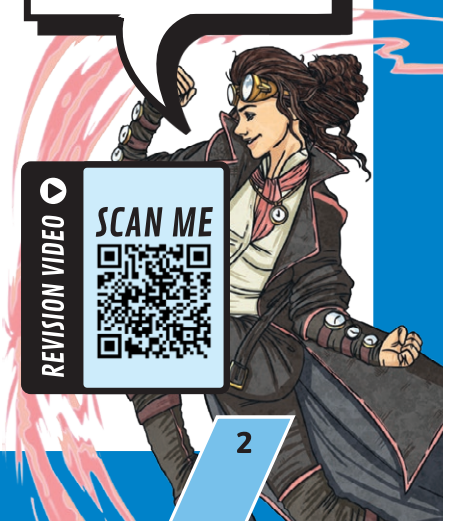
2 Here is a sequence of numbers in **descending** order. Which number is the odd one out?

918 889 908 889 809 889 888 889

3 True or false? 21 892 is **greater** than 120 892 because 2 is greater than 1.

Explain your answer.

Boost your superpowers by watching this revision video.



KS2 Maths- **SATs Revision Cards**

Ages 10-11

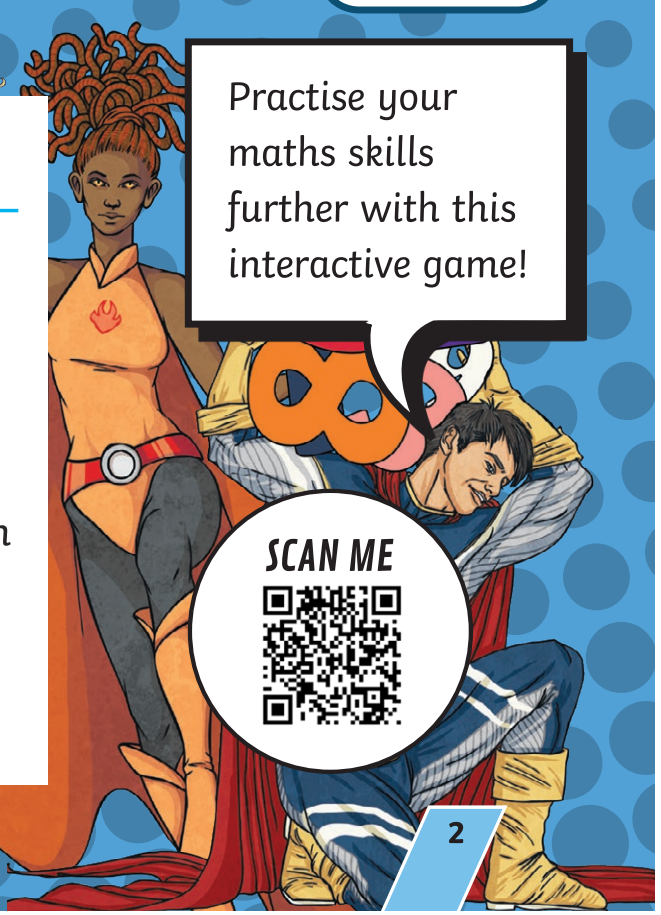
ANSWERS

1) 3 129 358

2) 809 889

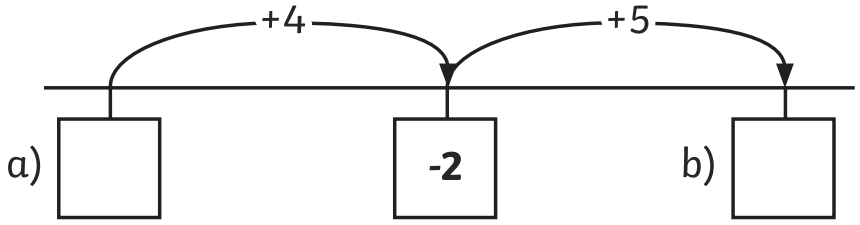
3) False
Accept answers that refer to 2 being in the ten thousands column and 1 being in the hundred thousands column; therefore the value of the digit 1 is greater than the value of the digit 2.

Practise your maths skills further with this interactive game!



NEGATIVE INTEGERS

1 Here is a part of a number line.
What are the missing numbers?



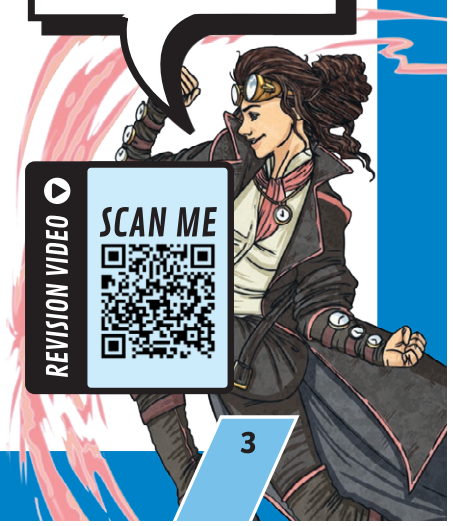
2 Here is a sequence of numbers. The rule is to **subtract** the **same amount** each time.

12	7	2			-13

What are the missing numbers?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

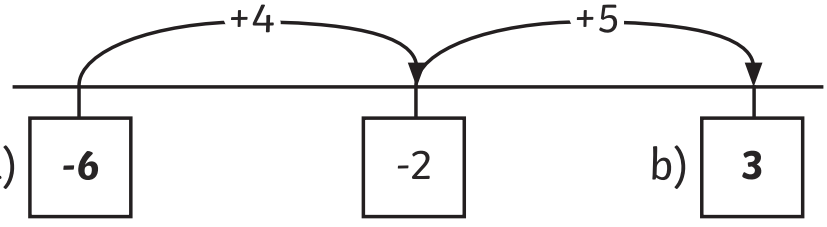


KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1)



2)

12	7	2	**-3**	**-8**	-13

Practise your maths skills further with this interactive game!

SCAN ME

COMPARING AND ORDERING DECIMALS

1 Order the following numbers from **smallest to greatest**.

1.24 2.01 1.02 1.41 1.2

2 Would the <, > or = symbol make the following statement correct?

0.04 ☐ 0.4

3 Which numbers are **less than** 7.5?

7.05 7.25 7.505 0.705 7.55

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

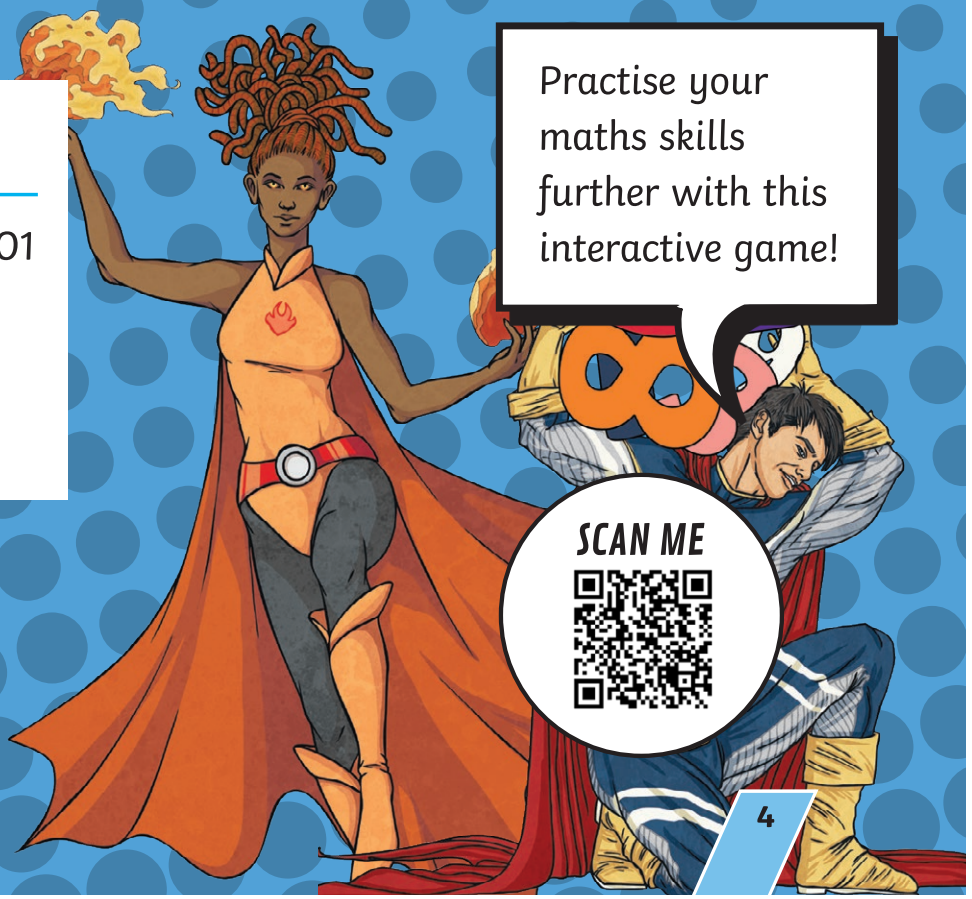
1) 1.02 1.2 1.24 1.41 2.01

2) 0.04 < 0.4

3) 7.05, 7.25 and 0.705

Practise your maths skills further with this interactive game!

SCAN ME



ROUNDING POSITIVE INTEGERS

STUDY SQUAD

1 Round 54 917 036 to the nearest **1000**.

2 Here are six out of order numbers.

914 841 999 941 894 949

a) Which number is the **nearest** in value to 900?

b) Which number is the **furthest** in value from 900?

3 Which number nearest in value to 40 000 can you make using all the digits: **1**, **2**, **3**, **4** and **5**?

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 54 900 000

2) a) 894
   b) 999

3) 41 235

Practise your maths skills further with this interactive game!

ROUNDING DECIMALS

STUDY SQUAD

1 Which of the following numbers round to **19.6** when rounded to the nearest **tenth**?

19.61 19.56 19.69 19.54

2 Round the following numbers to the nearest **whole number**.

a) 1.07

b) 9.25

c) 14.53

d) 2.913

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 19.61 and 19.56

2) a) 1
b) 9
c) 15
d) 3

Practise your maths skills further with this interactive game!

SCAN ME

ROMAN NUMERALS

1 Here is a number written in Roman numerals:
MCDXCI

What is the number in **digits**?

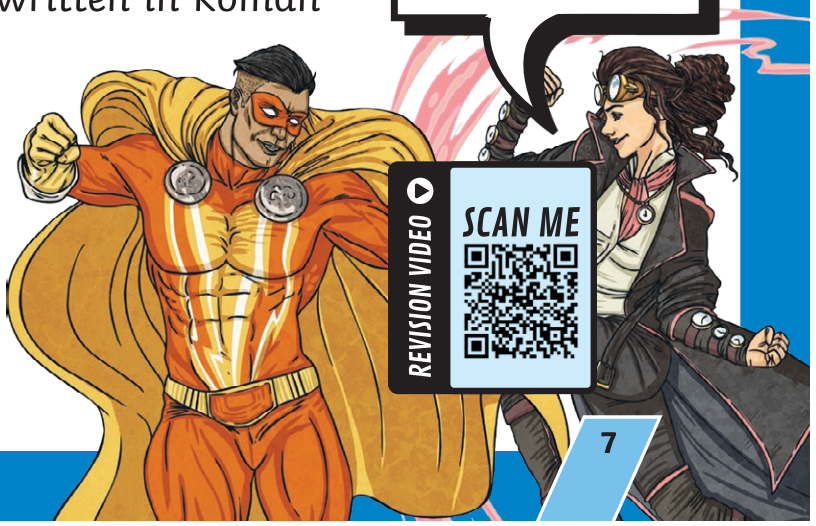
2 Here are three numbers written in Roman numerals and in digits.

Which one is **incorrect**?

DXCIX = 611
CCXLI = 241
LXXVIII = 78

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME



KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 1491

2) DXCIX ≠ 611
The value of DXCIX in digits is 599.

Practise your maths skills further with this interactive game!

SCAN ME

WRITTEN ADDITION

1 Write the **smallest** possible whole number to make this statement true.

42 + ☐ > 94

2 Abi and Joseph each swim 58m. Zeke swims 67m. How far have they swum **in total**?

3 This table shows the populations of bird species in a forest.

How many birds are there **altogether**?

Rook	22 412
Coot	76 566
Jay	31 444

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 53

2) 183m

3) 130 422

Practise your maths skills further with this interactive game!

SCAN ME

WRITTEN SUBTRACTION

1 Identify the missing digits in this number sentence.

□ 5 – 3 □ = 36

2 Find **all** of the calculations which are equal to **350**.

627 – 322

634 – 284

551 – 254

763 – 413

727 – 566

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) **75 – 39** = 36

2) **634 – 284** and **763 – 413**

SHORT MULTIPLICATION

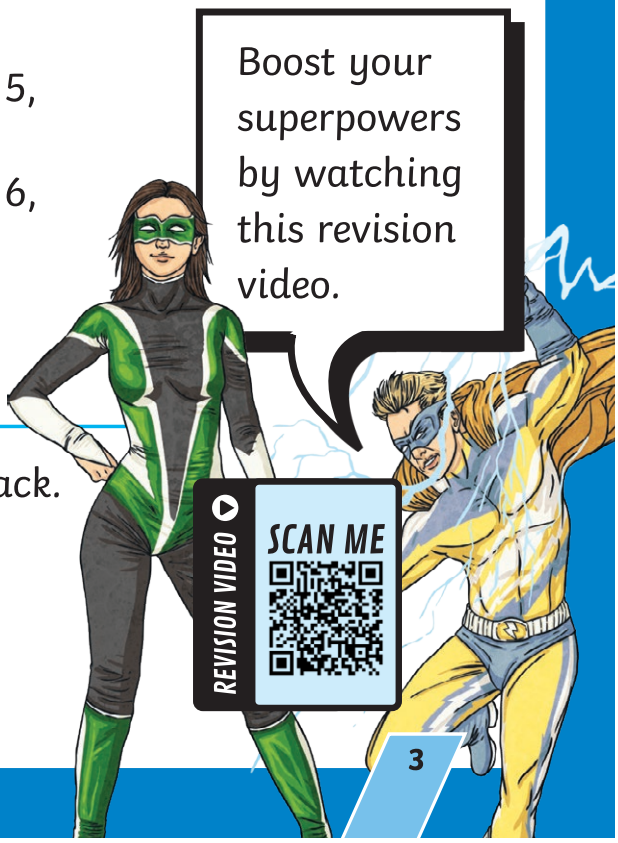
STUDY SQUAD

1 Bartek chooses a **whole number**.
When he multiplies his number by 5, the answer is less than 120.
When he multiplies his number by 6, the answer is greater than 130.

What numbers could Bartek have **started with**?

2 There are **8 dry wipe pens** in one pack.
There are **18 packs** in a box.
A school orders **7 boxes**.

How many dry wipe pens has the school bought?



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 22 or 23

2) 1008

LONG MULTIPLICATION

1 A library has 38 copies of the same book.

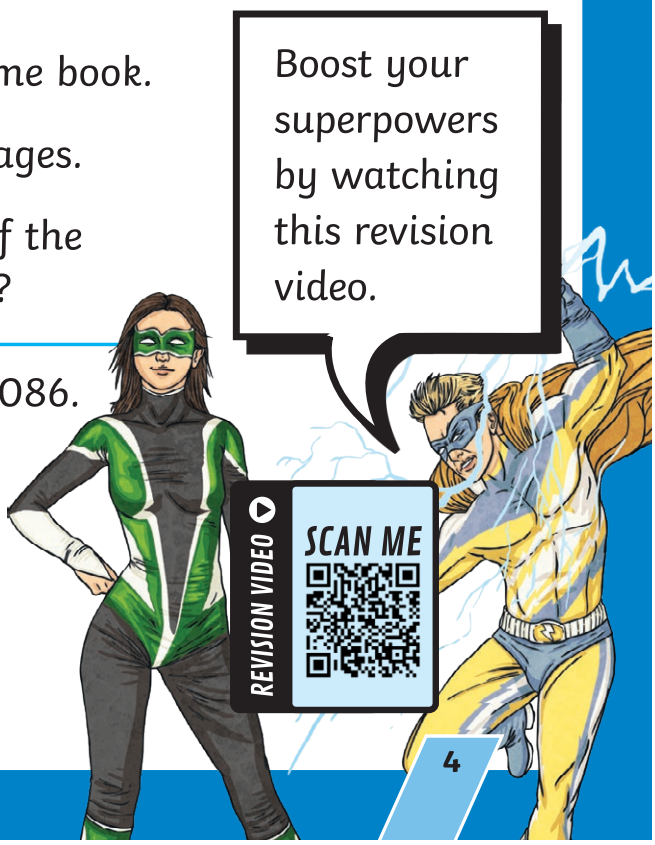
Each copy of the book has 294 pages.

How many **pages** do **all copies** of the book in the library have **in total**?

2 Amrit knows that 679 × 34 = 23 086.

Explain how Amrit can use this information to work out this calculation:

678 × 34



KS2 Maths- **SATs Revision Cards**

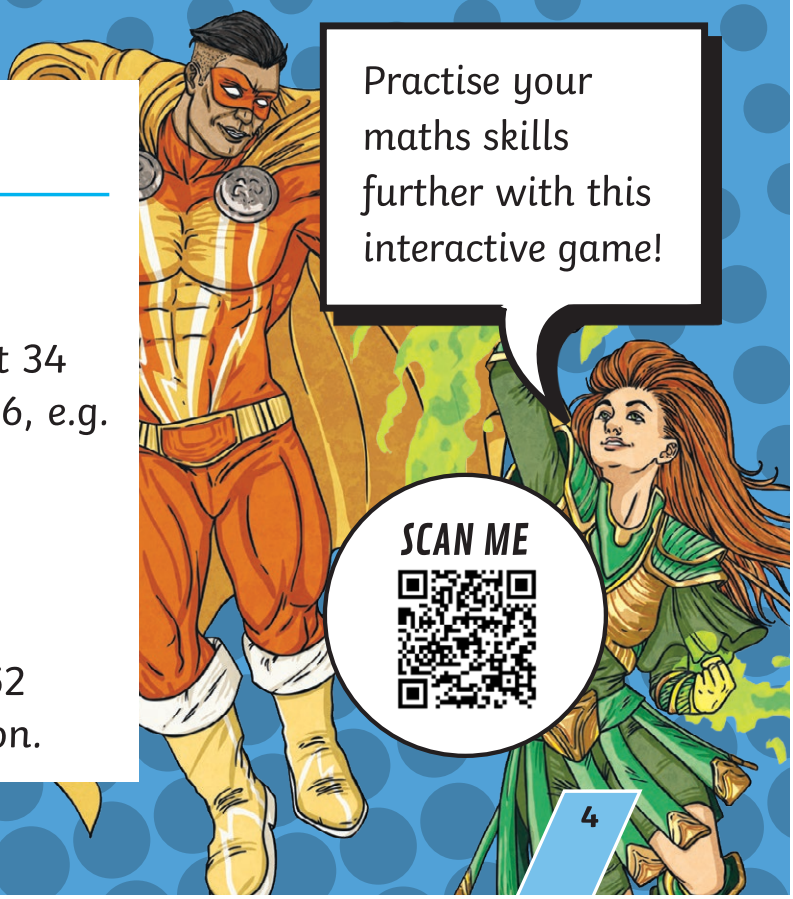
Ages 10-11

ANSWERS

1) 11 172 pages

2) Accept answers that imply that 34 must be subtracted from 23 086, e.g.
- 'Take 34 away.'
- 'It's 34 less.'
- '23 086 – 34'

Do not accept the answer 23 052 without an adequate explanation.



SHORT DIVISION

STUDY SQUAD

1 One **pack** contains 6 napkins.
Priya needs 50 napkins for her party.

How many **packs** of napkins would she need to buy?

2 7 divides into 60 with a remainder of 4.

Give **one** other number that divides into 60 with a remainder of 4.

3 At the concert, people sit in rows of 9.
There are 3186 people at the concert.

How many **rows** of chairs are there?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 9 packs

2) 8

3) 354 rows

Practise your maths skills further with this interactive game!

SCAN ME

LONG DIVISION

1. The total width of Quick Quadrant's shoulder pads is 208mm. The shoulder pads are made up of 16 sections.

   How wide is each section of the shoulder pads?

2. In an average school day, teachers give out approximately 210 stickers. They do this 5 days a week. Stickers come on sheets of 75.

   How many **sheets** of stickers do the teachers give out in an average week?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

Ages 10-11

ANSWERS

1) 13mm

2) 14 sheets

Practise your maths skills further with this interactive game!

SCAN ME

SOLVING MISSING DIGIT PROBLEMS

1 What are the missing digits to make this calculation correct?

	6	8	4	1	□
+		□	2	□	2
	7	3	6	5	1

2 What are the missing digits to make this calculation correct?

□	4	□	2	
–	1	□	3	5
	4	5	4	7

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1)

	6	8	4	1	**9**
+		**5**	2	**3**	2
	7	3	6	5	1
	1			1	

2)

	~~$^{5}6$~~	$^{1}4$	~~$^{7}8$~~	$^{1}2$
–	1	**9**	3	5
	4	5	4	7

Practise your maths skills further with this interactive game!

SCAN ME

SOLVING MULTI-STEP PROBLEMS

STUDY SQUAD

1 Twinkl Water Park had a total of 88 456 visitors over Saturday, Sunday and Monday.

There were 30 124 visitors on Saturday.
There were 31 687 visitors on Sunday.

How many visitors were there on **Monday**?

2 Felix buys **3** new cuddly toy tigers **and** a sticker book. He pays £56.62 **altogether**.

Elena buys **2** cuddly toy tigers and pays £32 **altogether**.

How much does the **sticker book** cost?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 26 645

2) £8.62

Practise your maths skills further with this interactive game!

SCAN ME

MULTIPLYING AND DIVIDING BY 10, 100 AND 1000

1. What number is 10 times greater than three hundred and six?

2. 1 000 × 56 × 10 = ☐

3. **1 tonne is 1 000 kilograms.**
A train carries **4.69 tonnes**.

How many **kilograms** can the train carry?

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 3 060

2) 560 000

3) 4 690

MULTIPLYING AND DIVIDING DECIMALS BY INTEGERS

1 Emily has 3 parcels that she wants to send to her friends. Each postage **cost will be the same**. She pays with a £20.00 note. She receives **£11.69 in change**. How much does it cost to send **one package**?

2 For each flower sold **£1.50** gets donated to a charity.

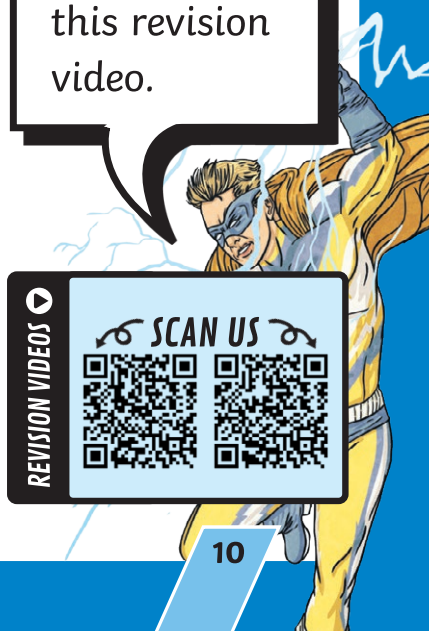
a) How much does the charity get when **15 flowers are sold**?

b) The charity received **£10.50**. How many flowers were sold?

Boost your superpowers by watching this revision video.

REVISION VIDEOS

SCAN US



KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) £2.77

2) a) £22.50
   b) 7

Practise your maths skills further with this interactive game!

SCAN ME

ORDER OF OPERATIONS (BIDMAS)

STUDY SQUAD

1 $75 - (5 \times 2^2) =$ ☐

2 Emily is completing this calculation:
10 × 4 + (20 ÷ 10) =

She thinks the answer is **60**.
Is she correct or incorrect? Why?

3 Write out the calculation putting the **brackets in the correct place** to ensure the correct answer is shown.

13 + 2 × 10 = 33

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 55

2) Emily is incorrect because she did not use BIDMAS. The correct answer is 42.

3) 13 + (2 × 10) = 33

Practise your maths skills further with this interactive game!

SCAN ME

MULTIPLES AND FACTORS

STUDY SQUAD

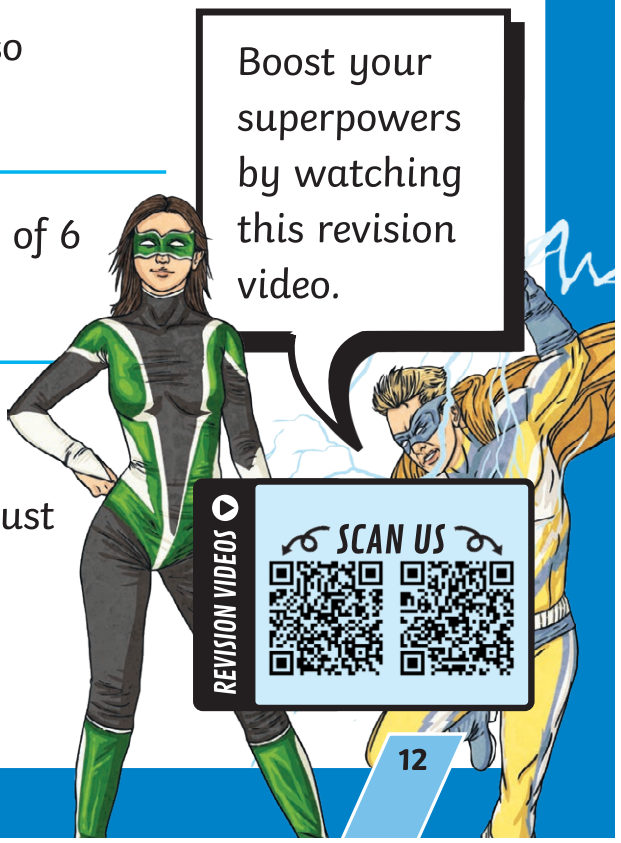
1. List **all** the factors of 12 that are also factors of 18.

2. What are **all** the common multiples of 6 and 8 that are **less than** 50?

3. Complete this sentence.

   Every number with a factor of 21 must **also** have factors of

   ☐ and ☐ and ☐



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 1, 2, 3, 6

2) 24, 48

3) 1, 3, 7

ESTIMATING AND USING THE INVERSE

1 **889.02 + 502.76**

Choose the correct **estimate** to the calculation above.

1500 2100 1400 2300

2 **4578 ÷ 7 = 654**

Explain how you can use this fact to solve **8 × 654**.

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 1400

2) The inverse of 4578 ÷ 7 = 654 is 654 × 7 = 4578

If 7 'lots of' 654 gives us 4578, then we need to add 1 more 'lot of' 654 to our answer to find 8 lots.

4578 + 654 = 5232

PRIME NUMBERS TO 100

STUDY SQUAD

1 Which of the numbers below are prime numbers?

17 24 2 35 190

2 Drew thinks of **two prime numbers**. Their numbers **add** up to **100**. What are their numbers?

3 Elias thinks of a **prime number**. He **multiplies** the number **by 10**. He then rounds the number to **200**. What was the **original prime number** Elias thought of?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

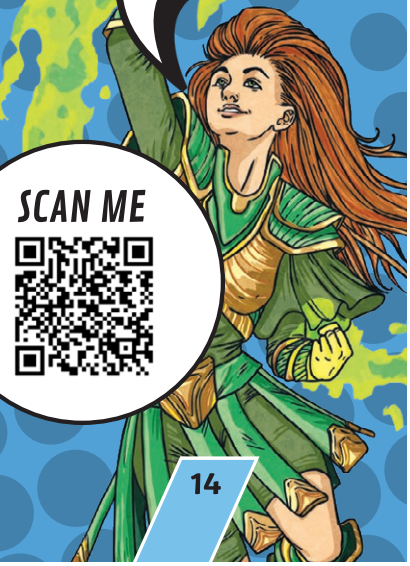
1) 17 and 2

2) 97 and 3

3) 19

Practise your maths skills further with this interactive game!

SCAN ME



SQUARE AND CUBE NUMBERS

STUDY SQUAD

1 Identify the **square** numbers in this sequence.

1 4 10 16 22 36

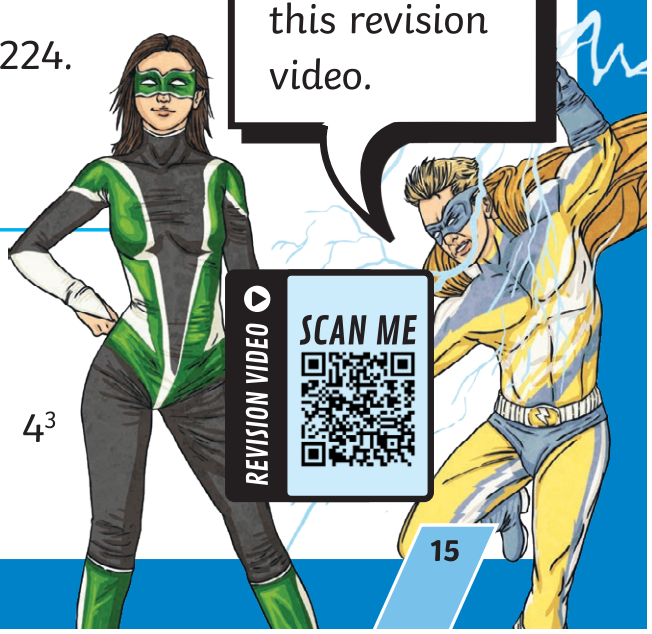
2 Find two **cube** numbers that total 224.

☐ + ☐ = 224

3 Order these values from **smallest** to **greatest**.

7^2 5^3 4^2 2^2 4^3

Boost your superpowers by watching this revision video.



REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 4, 16, 36

2) 8 and 216

3) 2^2 4^2 7^2 4^3 5^3

Practise your maths skills further with this interactive game!

SCAN ME

SIMPLIFYING FRACTIONS

1 Write each fraction in its **simplest** form.

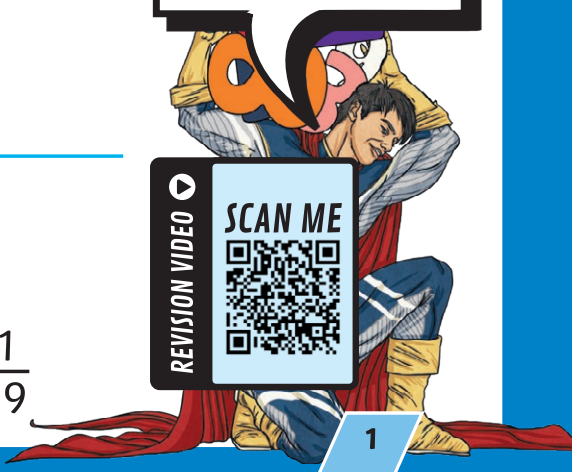
a) $\frac{28}{42}$ b) $\frac{60}{75}$ c) $\frac{39}{91}$

2 True or false?
$\frac{42}{56}$ in its simplest form is $\frac{21}{28}$
Explain your answer.

3 Which fractions are **not** in their simplest form?

$\frac{60}{108}$ $\frac{22}{53}$ $\frac{56}{64}$ $\frac{1}{19}$

Boost your superpowers by watching this revision video.



KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) a) $\frac{2}{3}$ b) $\frac{4}{5}$ c) $\frac{3}{7}$

2) False
Accept answers that explain $\frac{42}{56}$ that in its simplest form is $\frac{3}{4}$

3) $\frac{60}{108}$ and $\frac{56}{64}$

Practise your maths skills further with this interactive game!

CONVERTING BETWEEN MIXED NUMBERS AND IMPROPER FRACTIONS

1 Convert $\frac{25}{3}$ into a mixed number.

2 Convert $3\frac{7}{9}$ into a mixed number.

3 Would the <, > or = symbol make the following statements correct?

a) $\frac{23}{5}$ ☐ $5\frac{1}{5}$ b) $6\frac{1}{12}$ ☐ $\frac{73}{12}$

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) $8\frac{1}{3}$

2) $\frac{34}{9}$

3) a) < b) =

Practise your maths skills further with this interactive game!

SCAN ME

EQUIVALENT FRACTIONS

1 Which of the following fractions is equivalent to $6\frac{3}{7}$?

$\frac{25}{7}$ $\frac{9}{7}$ $\frac{45}{7}$ $\frac{33}{7}$

2 What are the two missing values needed to make these equivalent fractions correct?

$\frac{\square}{25} = \frac{8}{10} = \frac{32}{\square}$

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) $\frac{45}{7}$

2) $\frac{\boxed{20}}{25} = \frac{8}{10} = \frac{32}{\boxed{40}}$

Practise your maths skills further with this interactive game!

SCAN ME

COMPARING AND ORDERING FRACTIONS

STUDY SQUAD

1 Would the <, > or = symbol make the following statements correct?

a) $\frac{4}{5}$ ☐ $\frac{4}{10}$ b) $\frac{2}{3}$ ☐ $\frac{3}{4}$

2 **Simplify** these fractions, then reorder them from smallest to greatest.

$\frac{12}{24}$ $\frac{9}{63}$ $\frac{12}{60}$ $\frac{2}{24}$ $\frac{6}{18}$ $\frac{7}{28}$

smallest **greatest**

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) a) > b) <

2) $\frac{3}{24}$ $\frac{9}{63}$ $\frac{12}{60}$ $\frac{7}{28}$ $\frac{6}{18}$ $\frac{12}{24}$

smallest greatest

Practise your maths skills further with this interactive game!

ADDING AND SUBTRACTING FRACTIONS

1 Look at these numbers.

$1\frac{1}{4}$ $2\frac{1}{2}$ $13\frac{1}{4}$ $1\frac{1}{2}$ $13\frac{2}{4}$

a) Which two of these numbers **add** up to make 16?

b) Which two of these numbers have a **difference** of 12?

2 Zeke walked $2\frac{1}{8}$ km to the park. Then he walked $\frac{1}{2}$ km to his friend's house. How many kilometers did Zeke walk **altogether**?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) a) $13\frac{2}{4}$ and $2\frac{1}{2}$ b) $13\frac{1}{4}$ and $1\frac{1}{4}$

2) $2\frac{5}{8}$km or $\frac{21}{8}$km

Practise your maths skills further with this interactive game!

SCAN ME

MULTIPLYING FRACTIONS

STUDY SQUAD

1 What are the missing **integers**?

a) $\frac{5}{8} \times \square = 3\frac{3}{4}$

b) $\frac{2}{3} \times \square = 10\frac{2}{3}$

2 Abi had a bottle of lemonade that was $\frac{3}{4}$ full.
She poured **half** of the bottle into Drew's cup.
What **fraction** of the lemonade did she give to Drew?

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

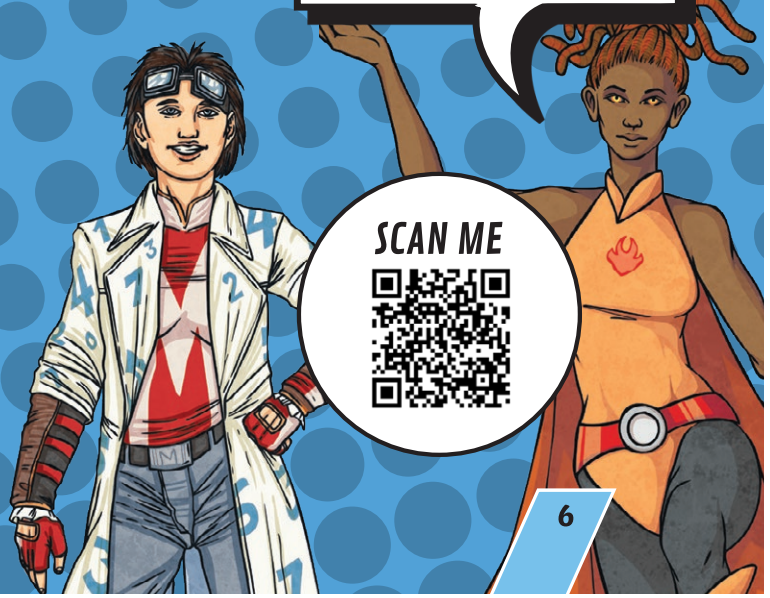
Ages 10-11

ANSWERS

1) a) 6 b) 16

2) $\frac{3}{8}$ or equivalent

Practise your maths skills further with this interactive game!



DIVIDING FRACTIONS

1 What are the missing values?

a) $\frac{2}{3} \div \square = \frac{2}{21}$

b) $\square \div 9 = \frac{4}{45}$

2 Is the statement true or false?

$\frac{3}{7} \div 4 = \frac{3}{4} \div 7$

Explain your answer.

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) a) 7 b) $\frac{4}{5}$

2) True
Accept explanations that refer to both calculations equalling $\frac{3}{28}$

Practise your maths skills further with this interactive game!

FRACTIONS OF AMOUNTS

1

a) What is $\frac{2}{3}$ of 168?

b) What is $\frac{3}{5}$ of 310?

c) What is $\frac{4}{7}$ of 693?

2

Priya has 288 mini monster cards.

$\frac{2}{9}$ of her cards are shiny.

How many of Priya's mini monster cards are **not** shiny?

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) a) 112 b) 186 b) 396

2) 224 cards

Practise your maths skills further with this interactive game!

EQUIVALENT FRACTIONS, DECIMALS AND PERCENTAGES

1 Which two fractions are **equivalent** to 0.4?

$\frac{4}{100}$ $\frac{4}{10}$ $\frac{1}{4}$ $\frac{4}{1000}$ $\frac{2}{5}$

2 True or false?
0.15 is greater than $\frac{1}{5}$
Explain how you know.

3 Would the <, > or = symbol make the following statement correct?

$\frac{3}{4}$ ☐ 75%

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) $\frac{4}{10}$ and $\frac{2}{5}$

2) False
Accept explanations that show that 0.15 is less than $\frac{2}{5}$, which equals 0.2

3) $\frac{3}{4}$ = 75%

Practise your maths skills further with this interactive game!

USING PERCENTAGES IN PROBLEMS

STUDY SQUAD

1. In a class of 30 pupils, 60% of the class take a packed lunch and the rest choose a hot dinner.
How many children choose **hot dinners**?

2. Joseph paid £16 for a game in a 20% off sale. What was the game's **original price**?

3. Zeke is making 120g of pick 'n' mix. 65% of the weight is jellies, 25% is buttons and the rest is fudge.
How many grams of **fudge** does he use?

Boost your superpowers by watching this revision video.

REVISION VIDEO

SCAN ME

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

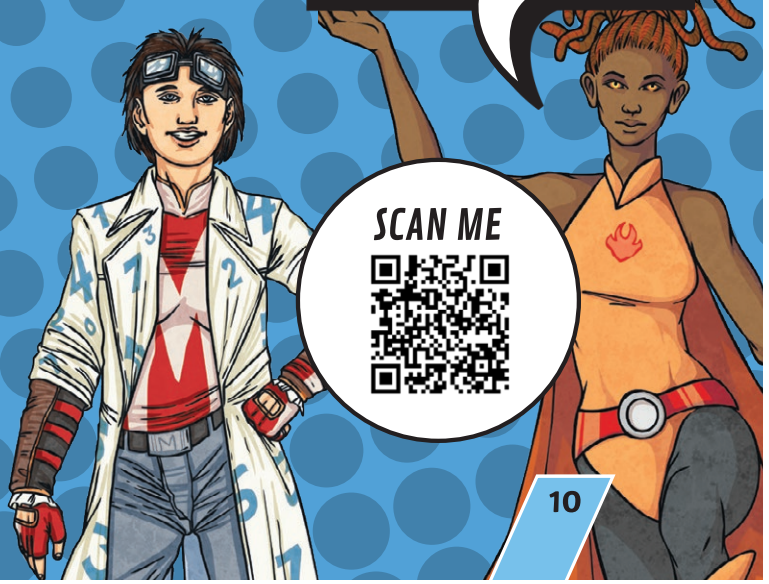
1) 12

2) £20

3) 12g

Practise your maths skills further with this interactive game!

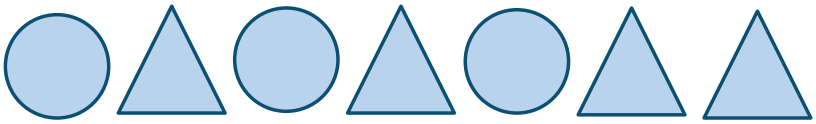
SCAN ME



RATIO

STUDY SQUAD

1 Here are some shapes.



What is the ratio of **circles to triangles**?

2 The Ratio Rescuer helped **two** children to solve maths problems. For every **8** questions he helped Felix to solve, he helped Jia to solve **3** questions. **Altogether**, The Ratio Rescuer helped solve **44** questions. How many questions did The Ratio Rescuer help **Jia** to solve?

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 3:4

2) 12 questions

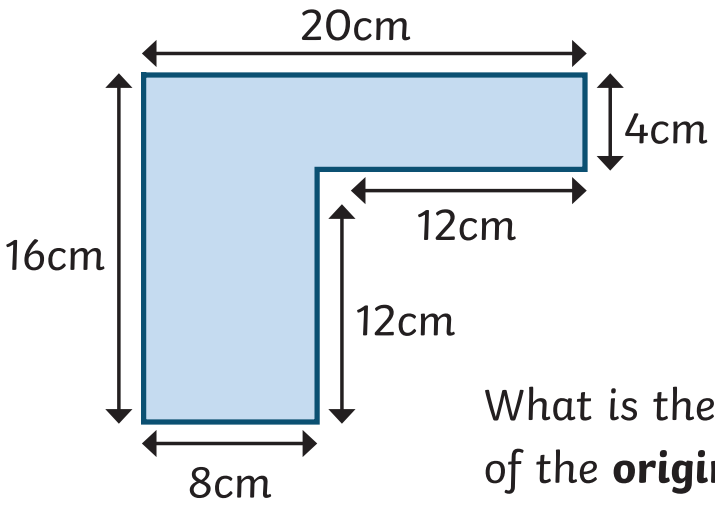
Practise your maths skills further with this interactive game!

SCALE FACTORS

STUDY SQUAD

1 This shape is the result of an **enlargement** by a scale factor of **4**.

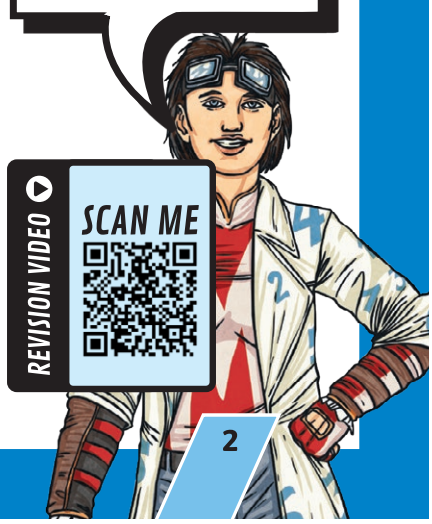
Not drawn to scale



What is the perimeter of the **original** shape?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 18cm

Practise your maths skills further with this interactive game!

SCAN ME

PROPORTION

1 The mass of a crayon is **one-quarter** of the mass of a pen.
If the **total** mass of **one crayon** and **one pen** is **125g**, what is the mass of the **pen**?

2 Here is a recipe for some pancakes.

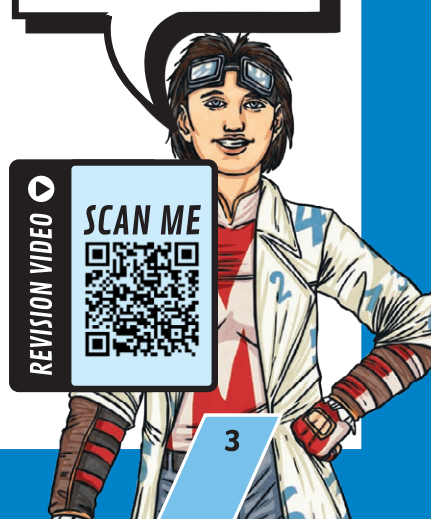
Elias makes the recipe using **4** eggs.

What mass of **plain flour** should he use?

248g plain flour
2 eggs
216ml milk
53g butter

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME



KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 100g

2) 496g

Practise your maths skills further with this interactive game!

SCAN ME

SUBSTITUTING AND FORMULAS

1

○ = 5 □ = 13 △ = 3

△ + □ − ○ = □

2

$p = 27$

What is $4p + 6$?

3

Priya shares some stickers (s) between 6 of her friends. Which expression shows the number of stickers each of Priya's friends gets?

$6 \div s$ $s - 6$ $s \div 6$

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 11

2) 114

3) $s \div 6$

Practise your maths skills further with this interactive game!

SCAN ME

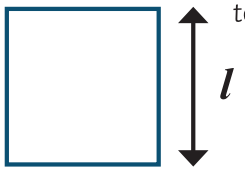
SOLVING EQUATIONS

1 $3s + 9 = 45$

Work out the value of s.

2 The perimeter of this square is 28cm

Work out the value of l.



3 z is a whole number.

2z is greater than 50.

4z is less than 110.

Find **all** the numbers that z could be.

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 12

2) 7cm

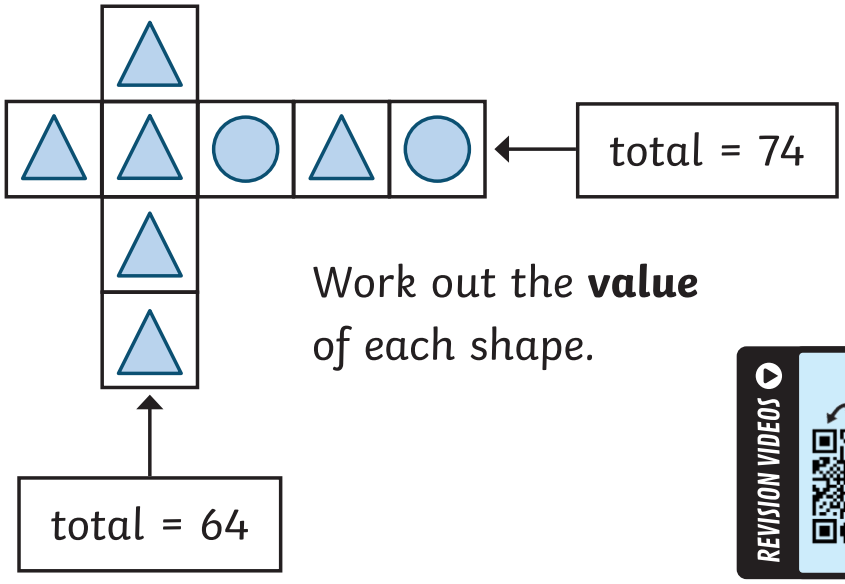
3) 26 and 27

Practise your maths skills further with this interactive game!

SOLVING PROBLEMS WITH TWO UNKNOWNS

STUDY SQUAD

1 Each shape represents a number.



Work out the **value** of each shape.

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) △ = 16

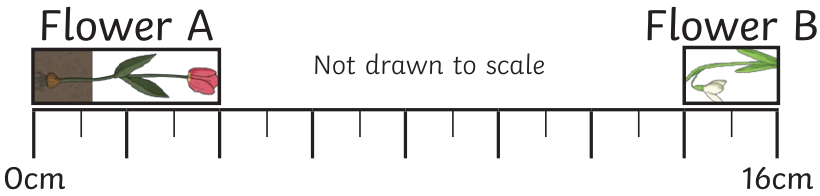
○ = 13

Practise your maths skills further with this interactive game!

ESTIMATING AND READING SCALES

STUDY SQUAD

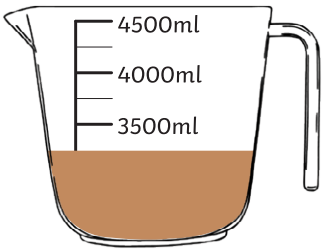
1



a) What is the distance **between** the flowers?

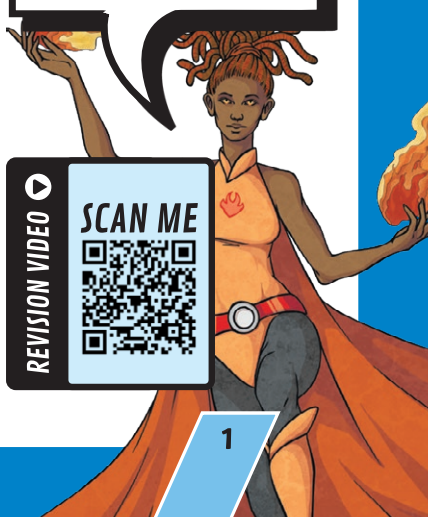
b) How **long** are both flowers?

2



Jia makes some gravy. In **litres**, how much gravy is in the jug?

Boost your superpowers by watching this revision video.



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) a) 10cm
   b) Flower A - 4cm
      Flower B - 2cm

2) 3 litres

Practise your maths skills further with this interactive game!

CONVERTING BETWEEN METRIC UNITS

STUDY SQUAD

1

Emily has five different lengths of ribbon:

1700cm 1m 70m 1.7m 107cm

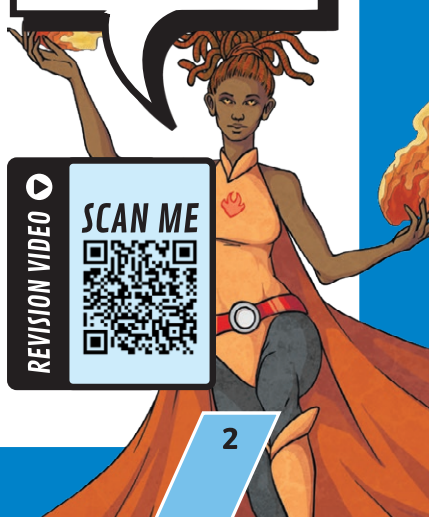
Write the lengths of Emily's ribbons in order, starting with the **longest**.

2

Priya has **12 animals** on her farm.
She has **20 000 grams** of feed.
She pours **1.5kg** for each animal.

How **much feed** does she have **left**?

Boost your superpowers by watching this revision video.



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 70m 1700cm 1.7m 107 cm 1m

2) 2kg or 2000g

Practise your maths skills further with this interactive game!

CONVERTING BETWEEN METRIC AND IMPERIAL UNITS

STUDY SQUAD

1 Zeke drew a rectangle that was **19.6cm long**.

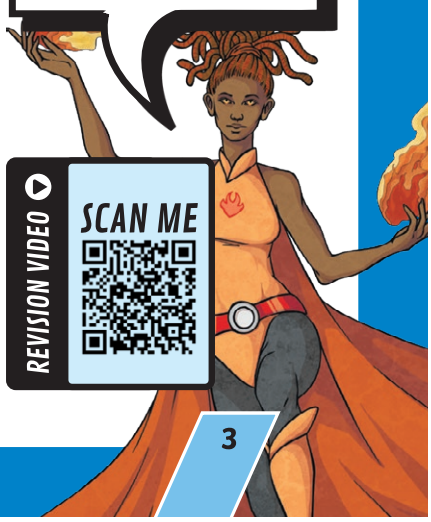
How many **millimeters** long was the rectangle?

2 Bartek went for a walk and walked for **1.75km**.

How many **metres** did he walk?

Boost your superpowers by watching this revision video.

REVISION VIDEO ▶ SCAN ME



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 196mm

2) 1750 metres

Practise your maths skills further with this interactive game!

SCAN ME

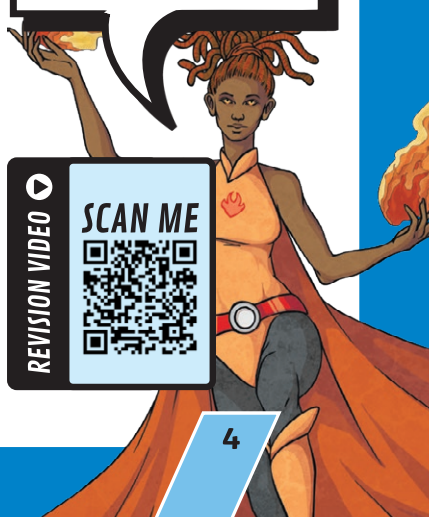
MONEY

STUDY SQUAD

1 Twinkl Bookstore has an offer:
Buy one book for £7.74 and get the second book **half price**.
Hari buys two books. How much must he pay **altogether**?

2 Emily and Bartek go to buy supplies for the class.
Emily buys 6 pens and a pencil. She pays £5.95. Bartek buys 3 pens and pays £2.70.
How much does a **pencil** cost?

Boost your superpowers by watching this revision video.



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) £11.61

2) £0.55 or 55p

Practise your maths skills further with this interactive game!

TELLING THE TIME AND UNITS OF TIME

1 Write the missing numbers.

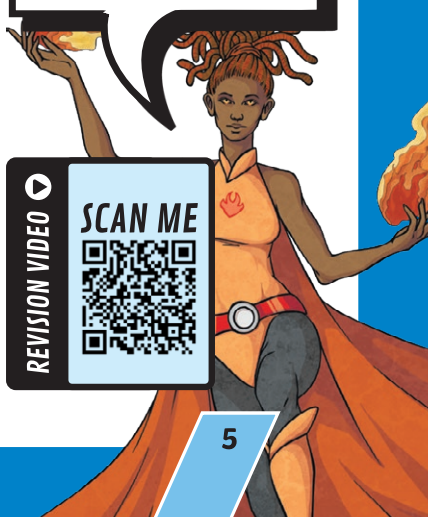
90 minutes = ____ **hours**

84 days = ____ **weeks**

2 In June, Felix drinks 5, 6 or 8 glasses of water a day.
In the first 10 days, he drinks 64 glasses of water **altogether**.
There are 30 days in June.
What is the **greatest** number of glasses Felix can drink in June?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME



KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) a) 1.5 hours or $1\frac{1}{2}$ hours
b) 12 weeks

2) 224 glasses

Practise your maths skills further with this interactive game!

SCAN ME

SOLVING PROBLEMS INVOLVING TIME AND DURATION

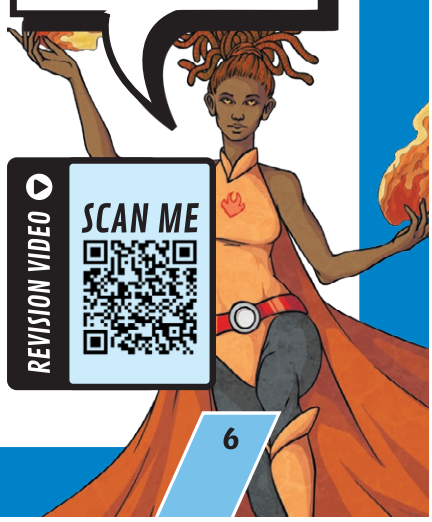
STUDY SQUAD

1 What is **540 minutes** in **hours**?

2 Emily finished 8 laps of the pool in 17 minutes and 28 seconds.
Zeke finished the 8 laps 1 minute and 17 seconds after Emily.
Hari finished the 8 laps 1 minute and 35 seconds before Emily.

a) How long did Zeke take?
b) How long did Hari take?

Boost your superpowers by watching this revision video.



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) 9 hours

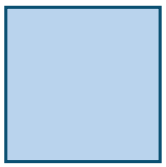
2) a) Zeke took 18 minutes and 45 seconds.
b) Hari took 15 minutes and 53 seconds.

Practise your maths skills further with this interactive game!

PERIMETER

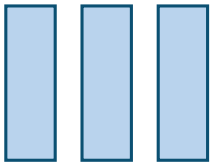
STUDY SQUAD

1 The perimeter of a square is 60m.



Not drawn to scale

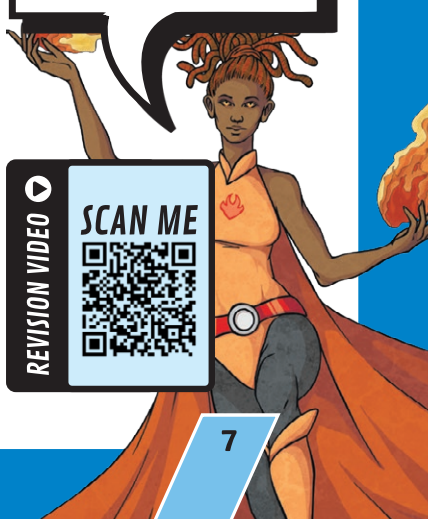
The square is cut into 3 identical rectangles.



What is the perimeter of **one** of the rectangles?

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

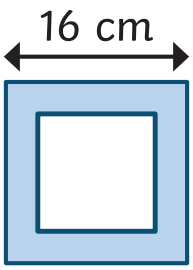
1) 40 metres

Practise your maths skills further with this interactive game!

SCAN ME

AREA

1



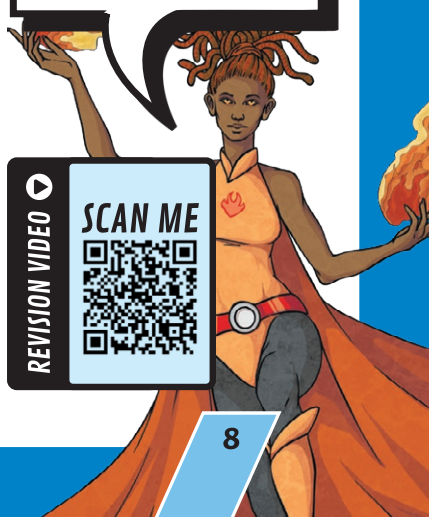
Not drawn to scale

The side length of the white square is **one-quarter** of the side length of the shaded square. Calculate the **area** of the **white** square.

2

Elena says that if shapes have the **same perimeter** then they **must** have the **same area**.
Is Elena correct or incorrect? Explain your answer.

Boost your superpowers by watching this revision video.



ANSWERS

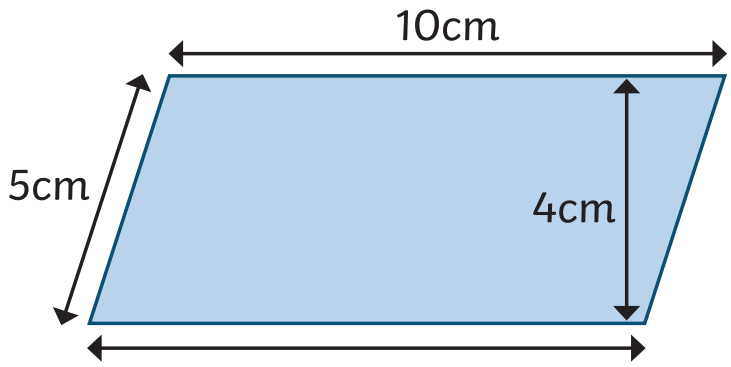
1) $16cm^2$

2) Elena is incorrect.
If Elena has two shapes of different types with the same perimeter, they will have a different area. For example, a triangle and a rectangle with the same perimeter would have a different area.

Practise your maths skills further with this interactive game!

AREAS OF TRIANGLES AND PARALLELOGRAMS

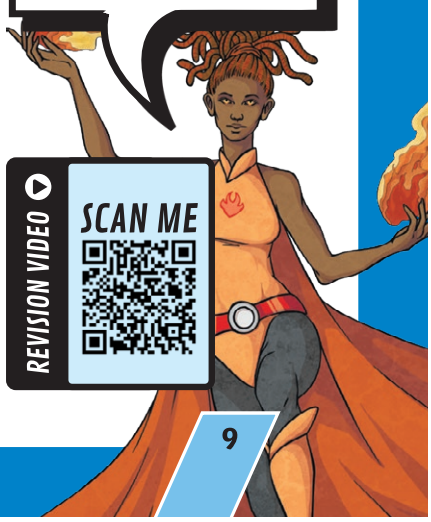
1 Calculate the **area** of the parallelogram.



Not drawn to scale

Boost your superpowers by watching this revision video.

REVISION VIDEO ▶ SCAN ME



KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

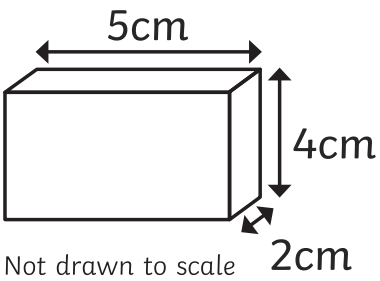
1) $40cm^2$

Practise your maths skills further with this interactive game!

SCAN ME

VOLUME

1



Not drawn to scale

Jia made a cuboid using centimetre cubes.
What is the **volume** of her cuboid?

2

Drew made a cuboid that was 4cm longer, 2cm taller and 1cm wider.
What is the **volume** of his shape?

3

What is the **difference** in volume between Jia's and Drew's shapes?

Boost your superpowers by watching this revision video.

REVISION VIDEO

SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 40cm^3

2) 162cm^3

3) 122cm^3

Practise your maths skills further with this interactive game!

SCAN ME

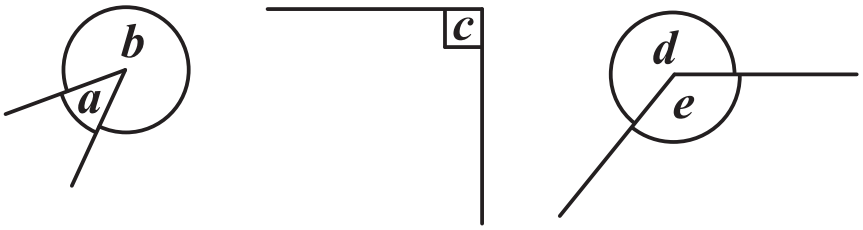
ANGLE FACTS

1 A spinning top spins two-and-a-half times around before stopping.

How many **degrees** does it spin in total?

2 Write the angles in order of size, starting with the **smallest**.

Not drawn to scale



Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 900 degrees

2) a, c, e, d, b

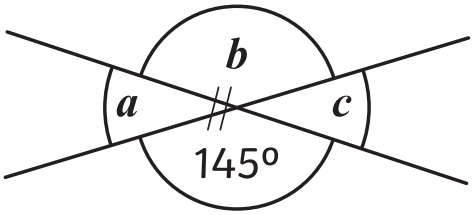
Practise your maths skills further with this interactive game!

SCAN ME

FINDING MISSING ANGLES

STUDY SQUAD

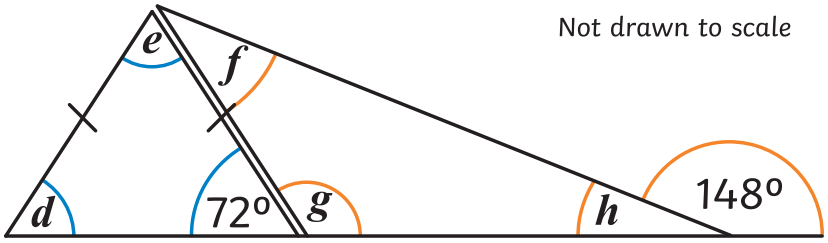
1 Calculate the size of angles a, b and c.



Not drawn to scale

2 Calculate the size of the missing angles.

Not drawn to scale



Boost your superpowers by watching this revision video.

REVISION VIDEO ▶ SCAN ME

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) a = 35°
b = 145°
c = 35°

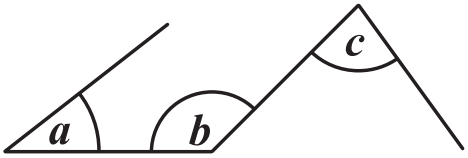
2) d = 72°
e = 36°
f = 40°
g = 108°
h = 32°

Practise your maths skills further with this interactive game!

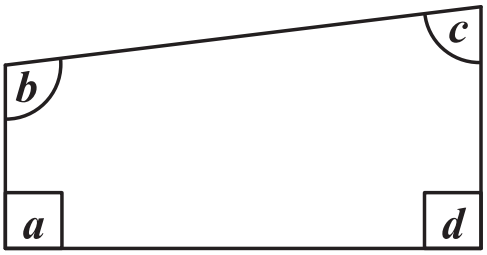
SCAN ME

MEASURING ANGLES

1 **Measure** each angle accurately using a **protractor** (angle measurer).



2 Identify the **type** of each angle in the quadrilateral below. **Measure** each angle.



Boost your superpowers by watching this revision video.

ANSWERS

1) a = 36° to 40° inclusive
b = 133° to 137° inclusive
c = 79° to 83° inclusive

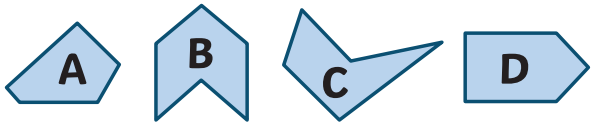
2) a = right angle, 90°
b = obtuse, 95° to 99° inclusive
c = acute, 81° to 85° inclusive
d = right angle, 90°
The sum of the angles should be 360°

Practise your maths skills further with this interactive game!

CLASSIFYING 2D SHAPES

1

a) Here are four **2D** shapes.



Which shape is **not** a **pentagon**?

b) Which of the following statements about shape C above is **true**?

- It is an irregular shape with 5 vertices.
- It is a pentagon with more than 5 sides.
- It is an irregular pentagon with more than 5 vertices.

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

Ages 10-11

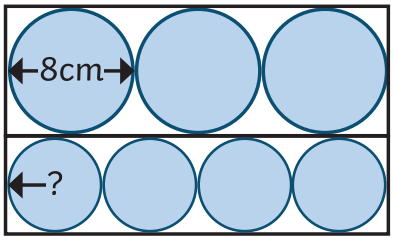
ANSWERS

1) a) B
   b) It is an irregular shape with 5 vertices.

Practise your maths skills further with this interactive game!

CIRCLES

1

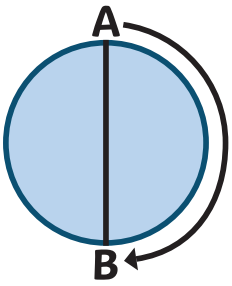


Not drawn to scale

The **diameter** of a large circle is 8cm. Calculate the **radius** of a **small** circle.

2

The distance around the edge of the circle from **A** to **B** is 17.4mm. Calculate the circle's **circumference**.



Boost your superpowers by watching this revision video.

REVISION VIDEO

SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 3cm

2) 34.8mm

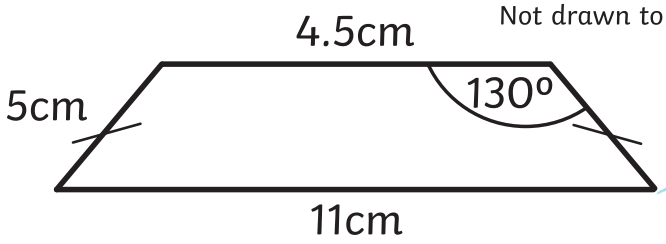
Practise your maths skills further with this interactive game!

SCAN ME

DRAWING 2D SHAPES

1 Draw **two lines** each measuring **6.5cm** which join at a **vertex**. The **angle** of the vertex should measure **63°**.
Use a **protractor** and a **ruler**.

2 Here is a sketch of an isosceles trapezium.



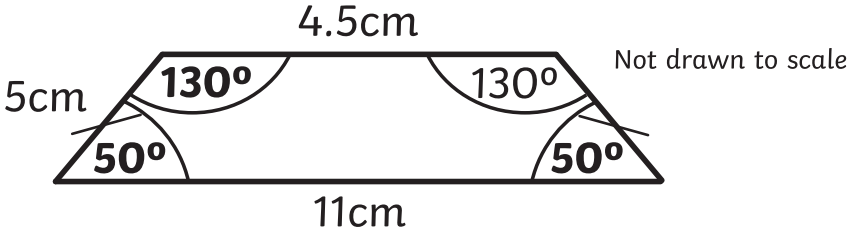
Draw the full-size shape **accurately**.
Use a **protractor** and a **ruler**.

Boost your superpowers by watching this revision video.

ANSWERS

1) two lines drawn, each in the range 6.3cm to 6.7cm inclusive, which join at a vertex; an angle in the range 61° to 65° inclusive

2)



Angles are correct within 2°; measurements are correct within 2mm.

Practise your maths skills further with this interactive game!

3D SHAPES

1

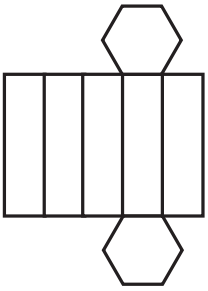
Priya thinks of a **3D** shape. She says,

It has 8 faces, 12 edges, 6 vertices and all of its faces are the same 2D shape.

Which 3D shape is she thinking of?

2

Why is this net **not** an accurate net of an hexagonal prism?



Boost your superpowers by watching this revision video.

REVISION VIDEO

SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) octahedron

2) Hexagonal prisms have 6 rectangular faces and this net has 5 rectangular faces.

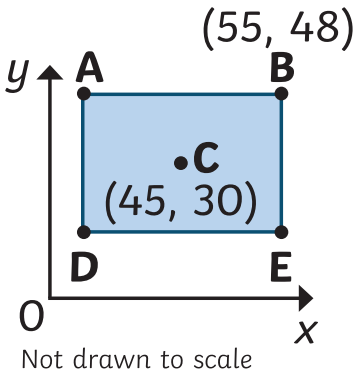
Practise your maths skills further with this interactive game!

SCAN ME

COORDINATES

STUDY SQUAD

1 **ABDE** is a rectangle on coordinate axes. The sides of the rectangle are parallel to the axes. Point C is the **centre** of the rectangle.



Not drawn to scale

a) What are the coordinates of point **A**?

b) What are the coordinates of point **E**?

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

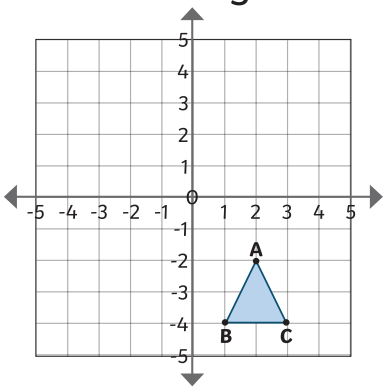
1) a) (35, 48)
   b) (55, 12)

Practise your maths skills further with this interactive game!

REFLECTION AND TRANSLATION

STUDY SQUAD

1 Hari has drawn a triangle on a coordinate grid.



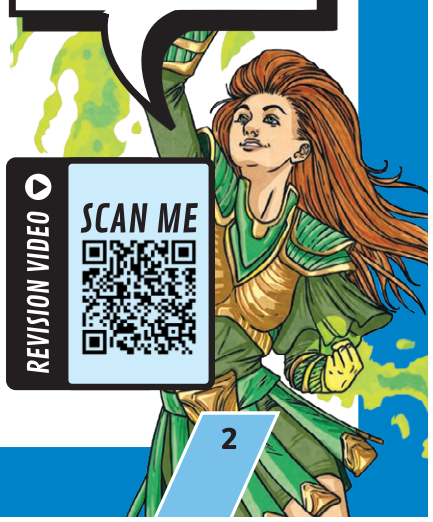
a) What is the coordinate of **point C** after the triangle is **translated** 6 up?

b) **After** the previous translation, what would be the coordinates of **point B** after the triangle is **reflected** in the x-axis?

Boost your superpowers by watching this revision video.

REVISION VIDEO

SCAN ME



KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

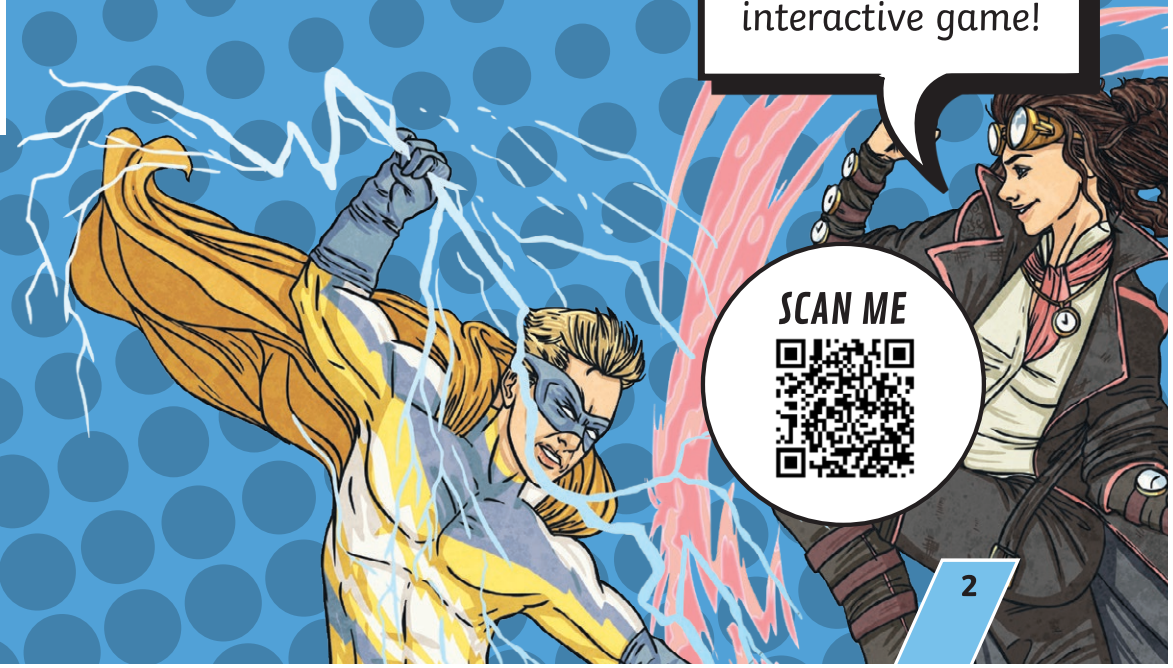
Ages 10-11

ANSWERS

1) a) (3, 2)
   b) (-1, 2)

Practise your maths skills further with this interactive game!

SCAN ME



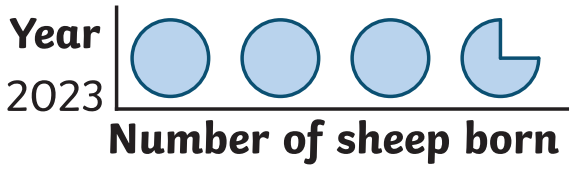
TABLES AND PICTOGRAMS

1 Some children voted for their favourite sandwich. How many voted for **cheese**?

	Ham	Cheese	Jam	Total
Children	45		56	134

2 How many sheep were born on Orchard Farm in 2023?

● = 140 sheep



Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) 33 children

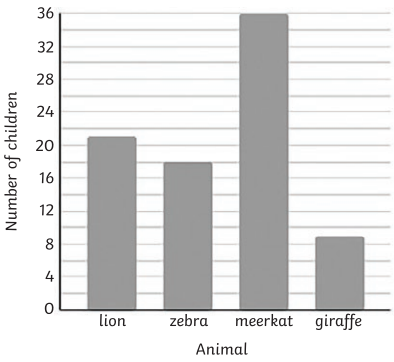
2) 525 sheep

Practise your maths skills further with this interactive game!

SCAN ME

BAR CHARTS

1 This chart shows the favourite zoo animals of a group of children.



a) How many more children chose lions than giraffes?

b) **True or false**?
'Exactly three times as many children prefer meerkats to zebras.'
Explain how you know.

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

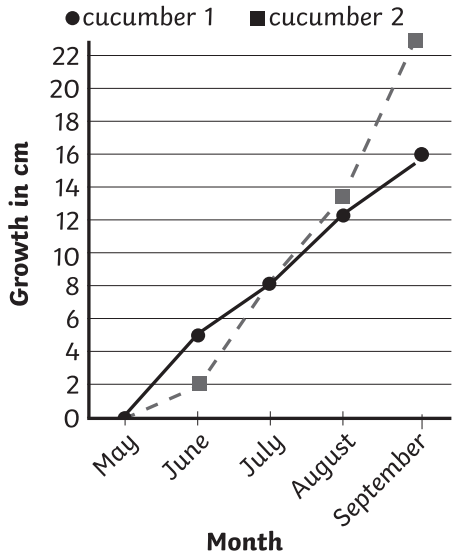
1) a) 12 children
b) False
Accept answers which recognise that the zebra bar is half the height of the meerkat bar not a third of the height. Do not accept vague explanations, e.g. 'The zebra bar is shorter than the meerkat bar.'

Practise your maths skills further with this interactive game!

SCAN ME

LINE GRAPHS

1 This graph shows the growth of two cucumbers over several months.



a) What is the size **difference** between the two cucumbers during September?

b) **Estimate** the size of cucumber 1 on June 15th.

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) a) 7cm
   b) 7cm

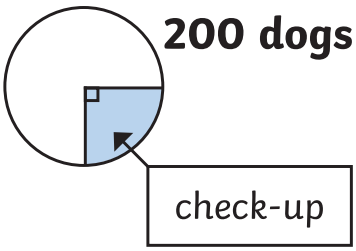
Practise your maths skills further with this interactive game!

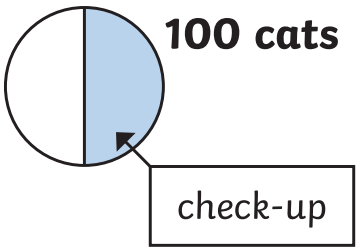
SCAN ME

PIE CHARTS

STUDY SQUAD

1 A vet created two pie charts to show the number of check-ups given to cats and dogs.





True or false?

'The pie charts show that more cats than dogs are given check-ups.'

Explain how you know.

Boost your superpowers by watching this revision video.

KS2 Maths- **SATs Revision Cards**

STUDY SQUAD

Ages 10-11

ANSWERS

1) False
Accept explanations that recognise that the two pie charts represent the same number of cats and dogs, e.g.
- 'One-quarter of 200 dogs is 50 and one-half of 100 cats is also 50'
- 'They both show 50'

Practise your maths skills further with this interactive game!

FINDING THE MEAN

1 Find the **mean** of each set of numbers. Round each answer to the **nearest whole number**.

a) 7, 12, 8, 6

b) 21, 2, 11, 9

2 Elias runs every day for **5 days**. The table shows how far he ran each day. His **average** daily distance is **12km**. Record how far Elias ran on **Friday**.

Mon	Tues	Wed	Thu	Fri
10km	14km	8km	17km	

Boost your superpowers by watching this revision video.

REVISION VIDEO SCAN ME

KS2 Maths- **SATs Revision Cards**

Ages 10-11

ANSWERS

1) a) 8
   b) 11

2) 11km

Practise your maths skills further with this interactive game!

SCAN ME