

#### What is this resource and how do I use it?

This revision booklet covers all the important curriculum objectives for mathematics for Year 5. This is the perfect way to get your children practising in preparation for a maths exam. You can also encourage your child to complete one task per day, or use the whole booklet in one session.



#### **Further Activity Ideas and Suggestions**

For some more targeted learning activities in areas where your child might need more support, take a look at our Maths Area on the Parents' Hub.

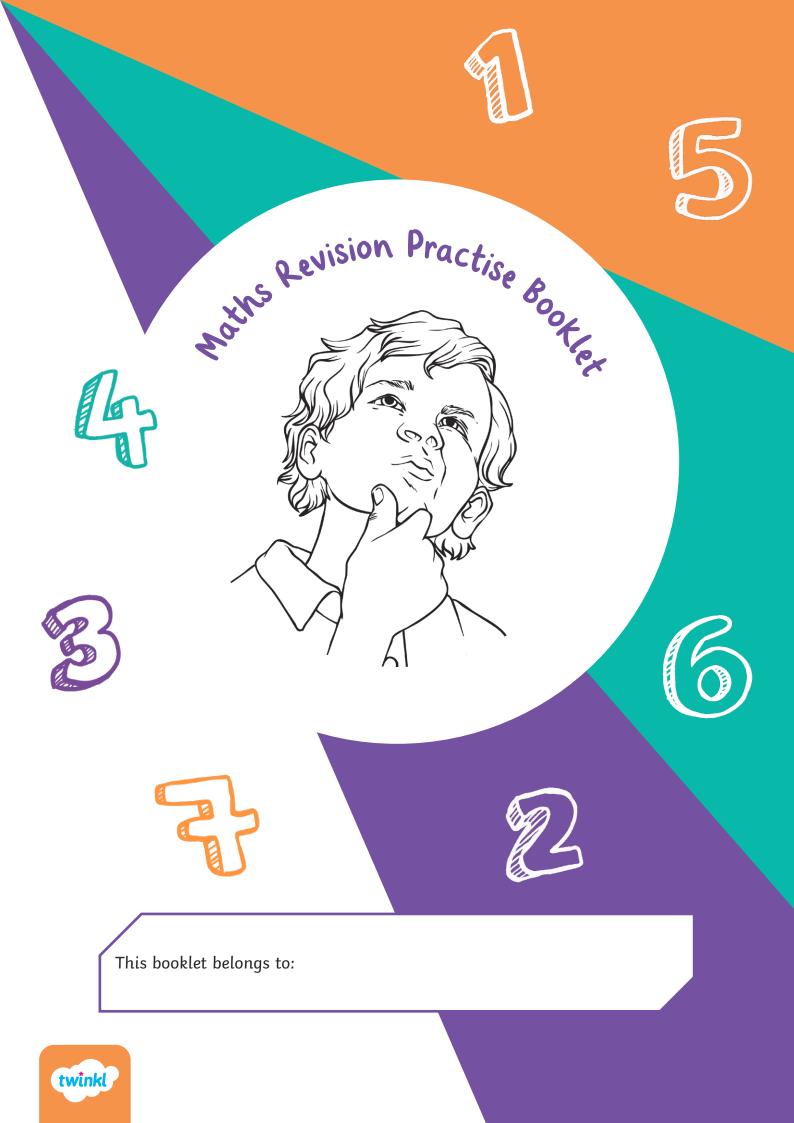
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**Homework Help** 





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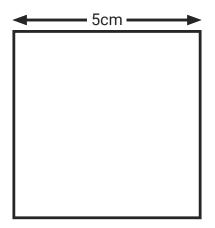
- Adobe Reader is a free PDF viewer, from Adobe. To install a copy of Adobe Reader, go to https://get.adobe.com/uk/reader/.
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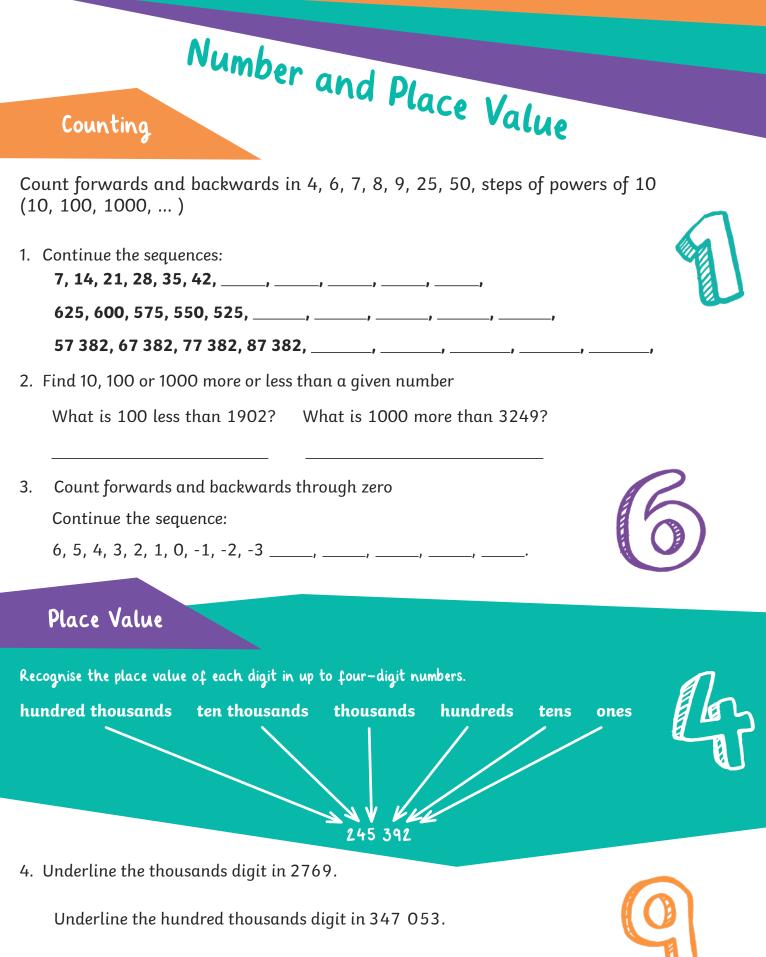












Underline the tens digit in 209 740.

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Number and Place Value
Compare and Order Numbers
Compare using <, > or = 5. Write a number so that each sentence makes sense:
141 141 > 144 114 =
501 243 <
6. Order the following numbers from largest to smallest:
Smallest 121 211 11 112 122 211 11 211 122 121 Greatest
Identify, Represent and Estimate         Use models and representations of numbers         7. What number is shown?
Round numbers to the nearest 10, 100, 1000 or 100 000
8. 4500 rounded to the nearest 1000 is 253 450 to the nearest 10 000 is

## Read and Write Numbers in Numerals and Words

#### 9. Complete the table:

Numerals	Words
	Three hundred and forty-four thousand, two hundred and eighty-five
855 102	
	Six hundred and twenty-two thousand, nine hundred and sixteen
120 563	

Number and Place Value

#### Roman Numerals

10. Use the following Roman numerals to represent numbers to 100:

Roman	Numeral	
Ι	1	CCXIX =
V	5	DCXXVI =
Х	10	CMXLVIII =
L	50	
С	100	
D	500	
М	1000	

### 11. Here are 3 years written in Roman Numerals. Order the years from earliest to latest:

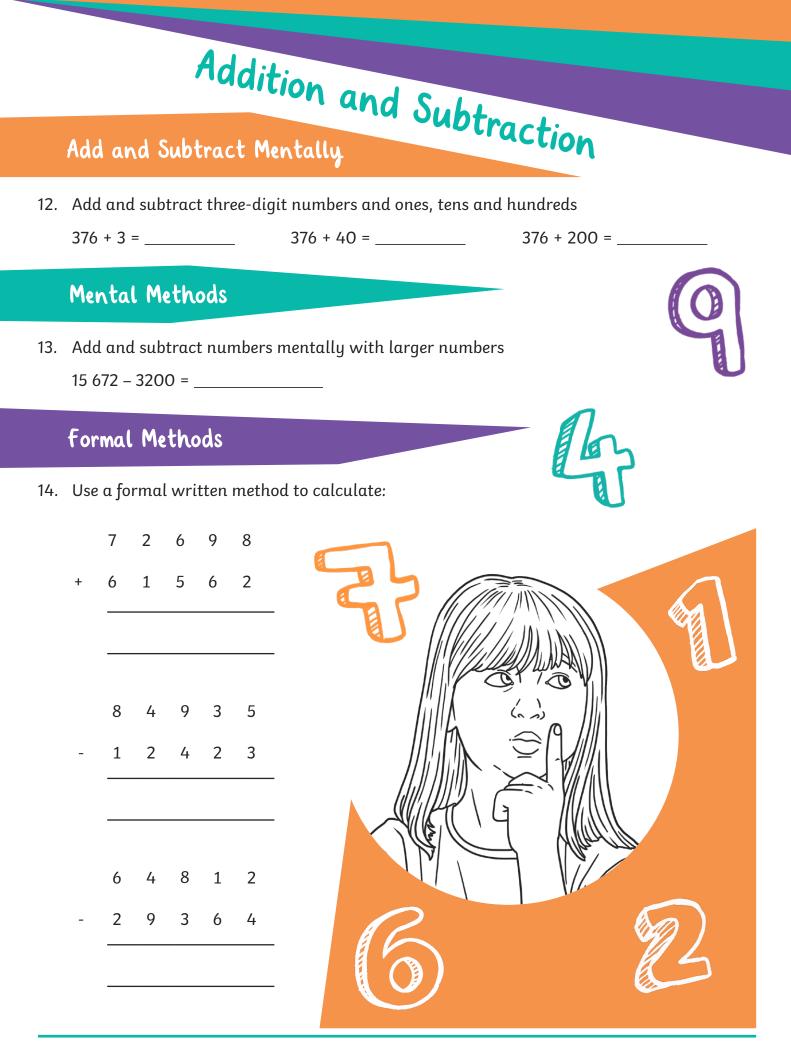
MMIX

MCMXCIX

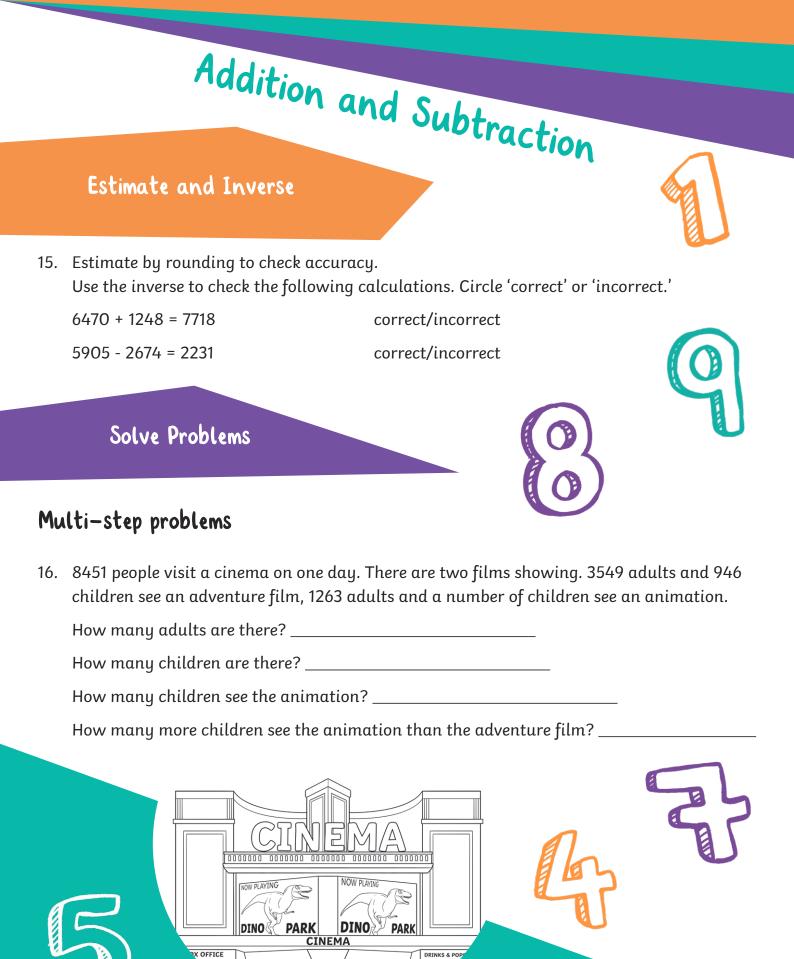
MMXV











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Multiplication and Division Multiplication Tables

#### 17. Fill in the missing numbers:

×	1	2	3	4	5	6	7	8	9	10	11	12	
1	1		3		5	6		8		10	11		
2		4		8	10		14		18			24	
3	3		9							30		36	
4					20						44		
5						30					55		
6	6					36		48		60		72	
7	7		21		35		49		63		77		
8				32			56		72		88	96	
9	9	18			45			72		90		108	
10	10		30			60						120	
11			33		55						121		
12	12		36			72						144	

## Multiplying and Dividing

18. Use knowledge of place value and related facts to solve these calculations:

400 × 5 = \_\_\_\_\_ 63

Multiply by O and 1 and divide by 1:

Multiplying and dividing whole numbers and decimals by 10, 100 and 1000:

45 × 10 = \_\_\_\_\_ 6.7 × 100 = \_\_\_\_\_ 902 × 1000 = \_\_\_\_\_

59 ÷ 10 = \_\_\_\_\_ 4506 ÷ 100 = \_\_\_\_\_ 382 ÷ 1000 = \_\_\_\_\_

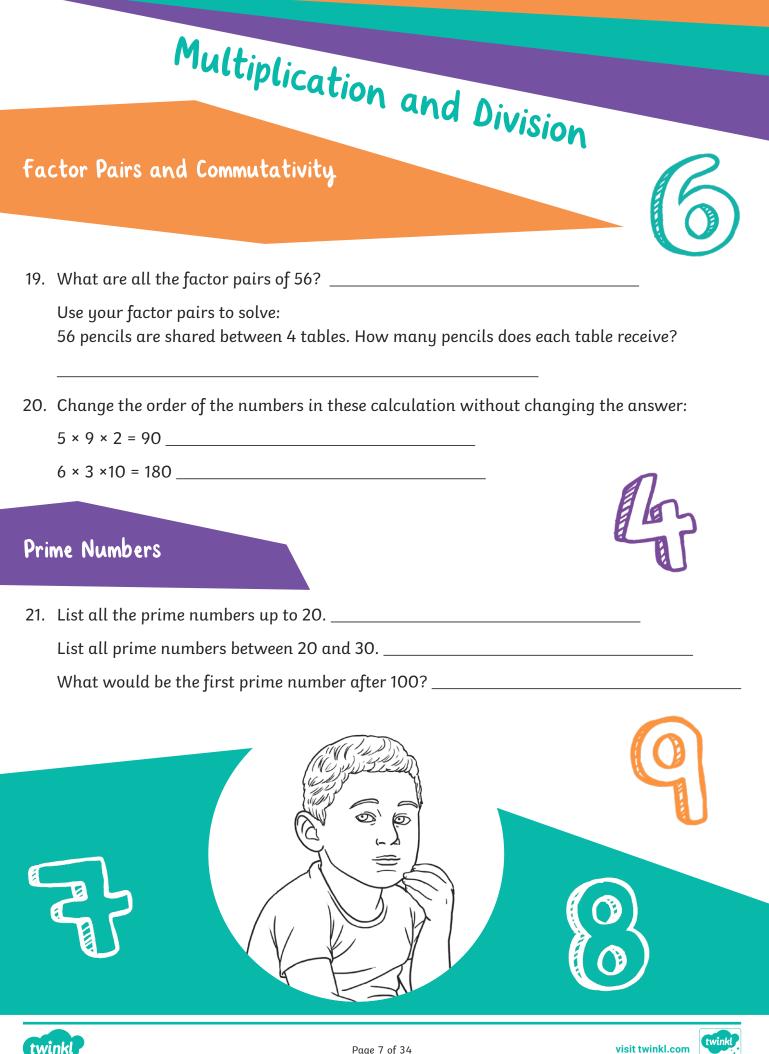






630 ÷ 7 = \_\_\_\_\_

285 ÷ 1 = \_\_\_\_\_







22. Write these numbers into the correct place in the table: 9, 144, 27, 4, 1, 8, 100, 81, 125, 16, 25, 64, 121

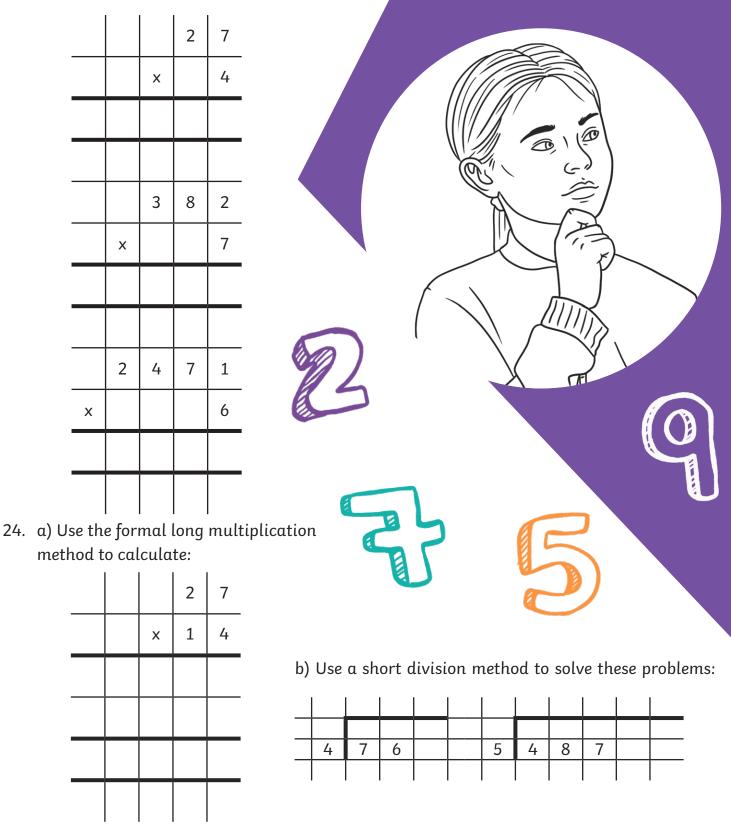
Square Numbers	Cube Numbers



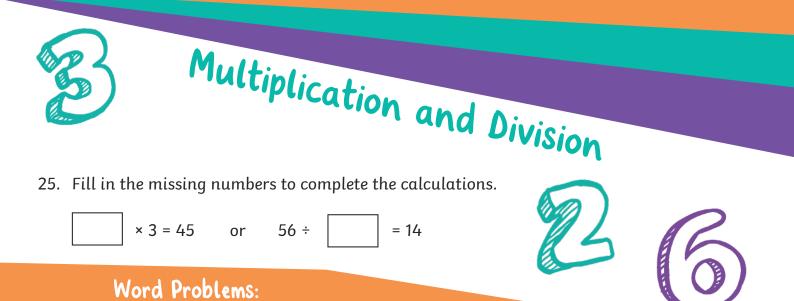


# Multiplication and Division Formal Methods

23. Use formal written methods to multiply:







26. A teacher has four new boxes of pencils, each with 12 pencils, and a tray with 37 pencils. The teacher shares equally all the pencils between 5 tables. How many pencils does each table receive? Show your working out below.

			I											

## Scaling Problems with Simple Fractions

27. 12 pizzas are cut into quarters. Into how many pieces will all the pizzas be cut?

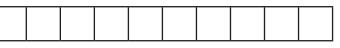
## Correspondence problems

28. Jenna has 2 t-shirts and 4 pairs of shorts. How many different combinations of the t-shirts and shorts does Jenna have?





29. 120 pencils are shared equally between 3 classes. How many pencils will they each receive?





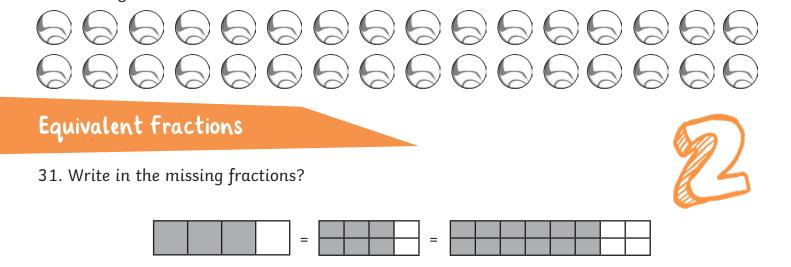








30. Find  $\frac{5}{8}$  of these marbles by circling:











	1														
	1	<u>1</u> 2			<u>1</u> 2										
$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{.6}  \frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$ $\frac{1}{16}$	$\frac{1}{6}$ $\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$ $\frac{1}{16}$					
1															
<u>1</u> 3					<u>1</u> 3	$\frac{1}{3}$									
$\frac{1}{6}$	<u>1</u> (	<u>1</u> 5		$\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$						$\frac{1}{6}$					
$\begin{array}{c c} \frac{1}{12} & \frac{1}{12} \end{array}$	$\frac{1}{12}$	<u>1</u> 12	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$					
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					1										
<u>1</u> 5		<u>1</u> 5			<u>1</u> 5		<u>1</u> 5			<u>L</u> 5					
$\begin{array}{c c} \frac{1}{10} & \frac{1}{10} \end{array}$	$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$			$\frac{1}{10}$	$\frac{1}{10}$	<u>1</u> 10	$\frac{1}{1}$	<u>1</u> 0	$\frac{1}{10}$	$\frac{1}{10}$					
$\begin{array}{c cccc} \frac{1}{20} & \frac{1}{20} & \frac{1}{20} & \frac{1}{20} \\ \end{array}$	$\frac{1}{20}$	$\frac{1}{20} \frac{1}{2}$	$\frac{1}{0}$ $\frac{1}{20}$	$\frac{1}{20} \frac{1}{20}$	$\begin{array}{c c} 1 \\ \hline 1 \\ \hline 20 \\ \hline 2 \end{array}$	$\frac{1}{20}$	$\frac{1}{20}$ $\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$ $\frac{1}{20}$	$\frac{1}{20}  \frac{1}{20}$					

32. Write 3 fractions that are equivalent to

to 
$$\frac{1}{3}$$





Fractions Add and Subtract Fractions with the Same Denominator and with Denominators that are Multiples 33. Find the missing equivalent fractions.  $-\frac{3}{8} = \frac{2}{8}$ <u>5</u> 8  $\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$ = = Compare and Order Unit fractions 35a) Order these fractions from smallest to greatest:  $\frac{1}{6}$   $\frac{1}{3}$  $\frac{1}{8}$  $\frac{1}{4}$ smallest greatest b) Use <. > or = to compare these fractions: <u>3</u> 5  $\frac{1}{5}$ <u>5</u> 8  $\frac{1}{4}$ 

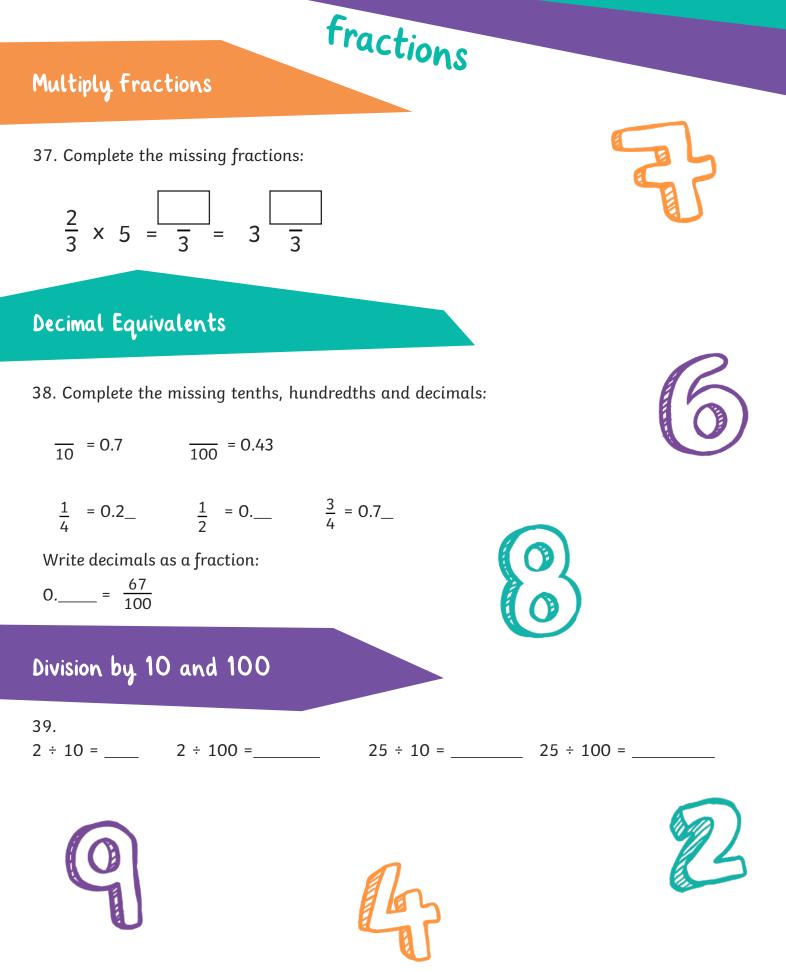
## Mixed Numbers and Improper Fractions

36. Write the improper fraction:

Mixed fraction  $1\frac{1}{5} = -$  Improper fraction











# fractions

## Rounding Decimals

- 40. Round these decimals to the nearest whole number:
- 0.5 rounds to \_\_\_\_\_
- 2.35 rounds to \_\_\_\_\_

#### Round this decimal to one decimal place:

0.05 rounds to \_\_\_\_\_



## Read, Write, Order and Compare Decimals

41. Write the decimal in digits: zero ones, four tenths and five hundredths. \_\_\_\_\_\_ two ones, three tenths and four hundredths. \_\_\_\_\_\_



## Percentages

42. Complete the missing percentages:

$$--\% = \frac{50}{100} = \frac{1}{2} \qquad 41\% = \frac{1}{100}$$

## Solve Problems

#### Fractions

43. Adil divides his marbles into tenths. He wants to give two friends an equal number of marbles but still have 3 times more than their individual amounts. What fractions could he split his marbles into?





## Measure and Money Problems

44. a) Ellie buys a new shirt for £4.75 and a pair of trousers for £3.50 in a sale. She pays with a £10 note. What change will she receive?

Fractions

b) A bag of potatoes weigh 2.45kg. How much will 4 bags weigh?

Decimal Problems to 3 Decimal Places

45. A packet of sugar weighs 1.348kg.  $\frac{3}{4}$  kg is used to bake some cakes. How much will the packet weigh now?

## Knowing Percentage and Decimal Equivalents

46. Order the following from smallest to largest:

25%, 0.3,  $\frac{2}{5}$ 









## Estimate, Measure, Compare, Add and Subtract

## Lengths (mm/cm/m)

47. Measure and draw lines using a ruler in centimetres (cm) or millimetres (mm).

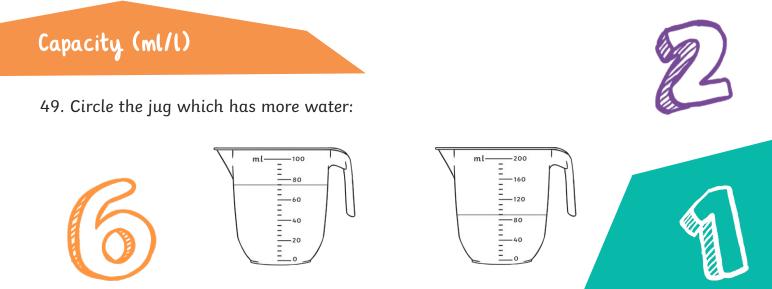
Measurement

This line is \_\_\_\_\_cm or \_\_\_\_\_mm long.

Mass (g/Kg)

Measure the mass of objects using different scales

48. 3 apples weigh 435g. One is eaten and the 2 remaining apples weigh 285g. What is the mass of the eaten apple?



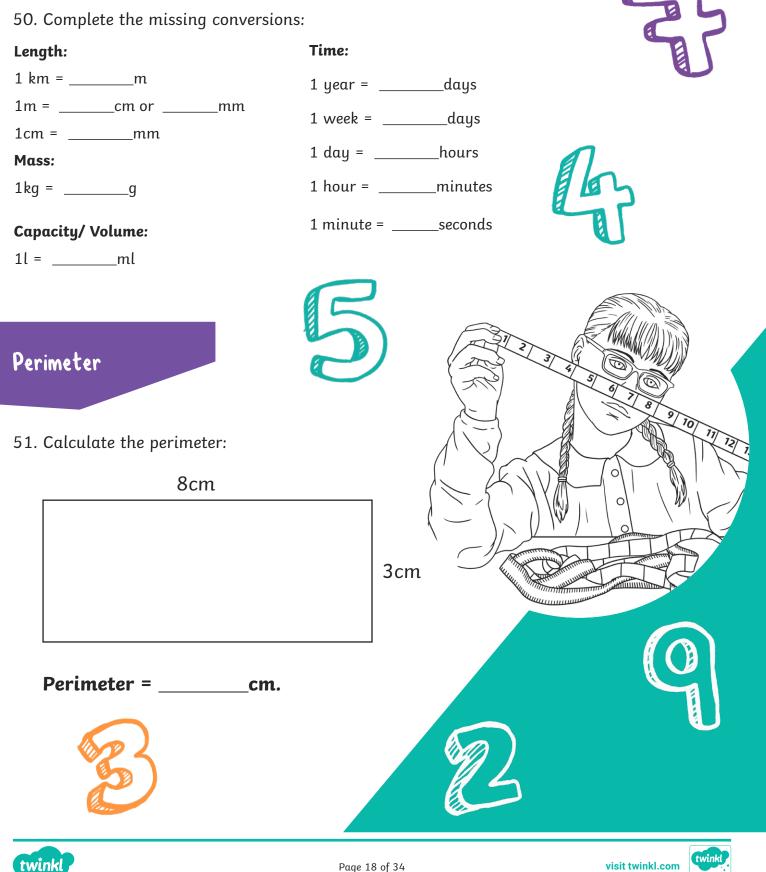








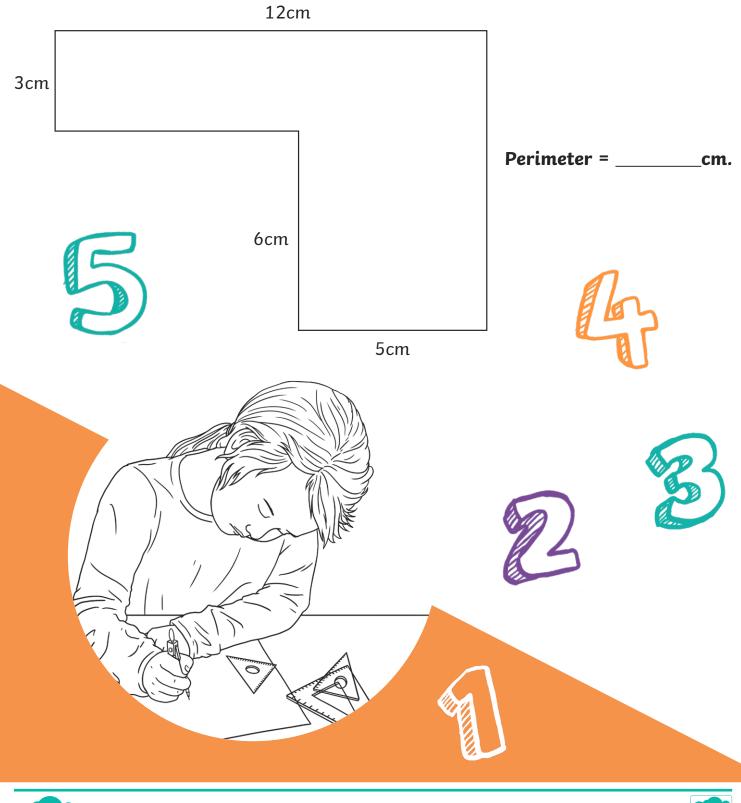
## Convert between units



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Measure and calculate the perimeter of rectilinear shapes (including squares)

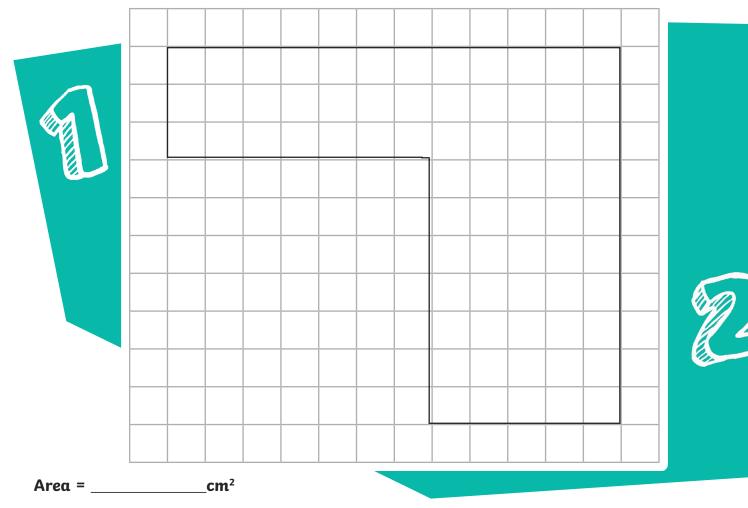




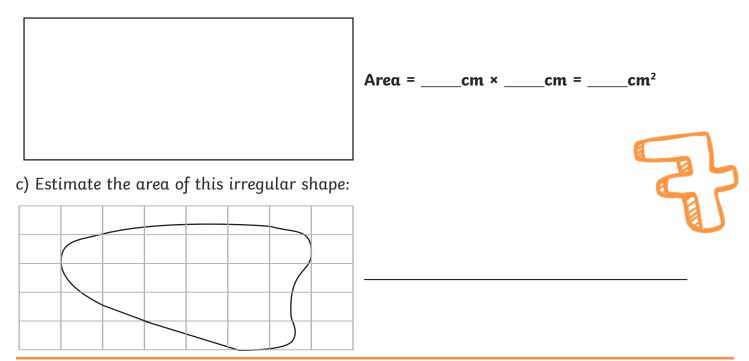




#### 52. a) Calculate the area of this rectilinear shape by counting squares:



b) Measure the sides of the rectangle and calculate the area:





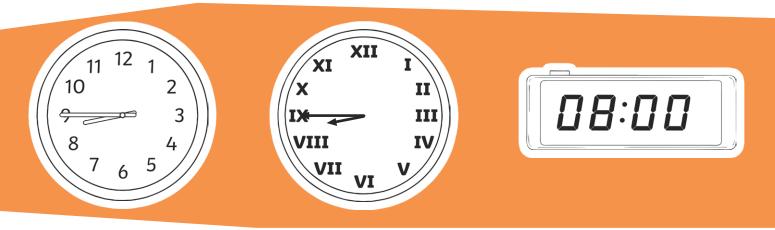
## Money

53. Add and subtract giving change

Jude buys a bag of apples for £2.25 and some avocados for £3.15.How much change will he get from £20?



- 54. Analogue clocks and 12/24 hour time
- a) What time do these clocks show? \_\_\_\_\_



b) The maths lesson lasted one hour and five minutes. The art lesson was one hour and twenty minutes. Which lesson was longer and by how long? \_\_\_\_\_

c) A film lasts 136 minutes. How long is the film in hours and minutes?

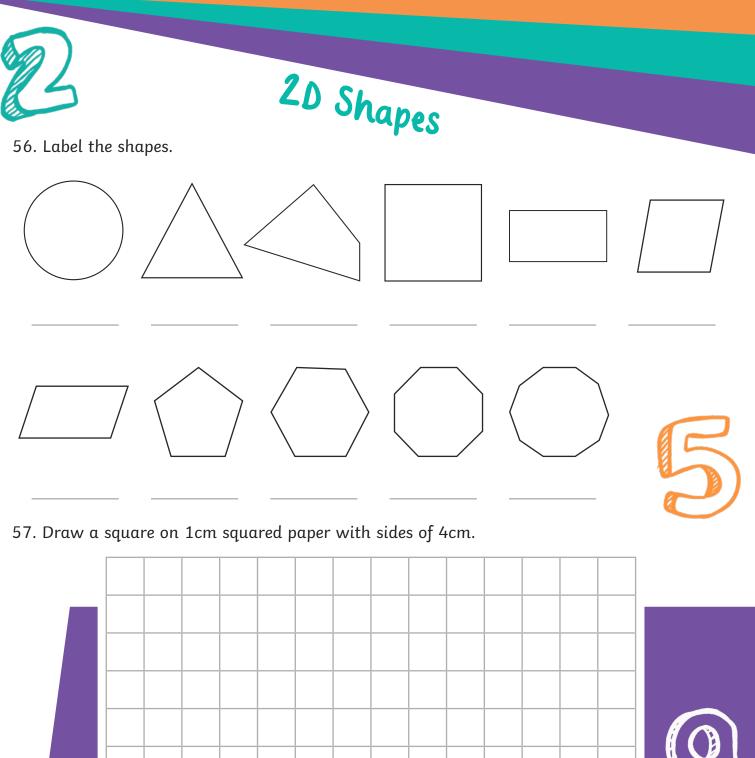
\_\_\_\_\_ hours and \_\_\_\_\_ minutes

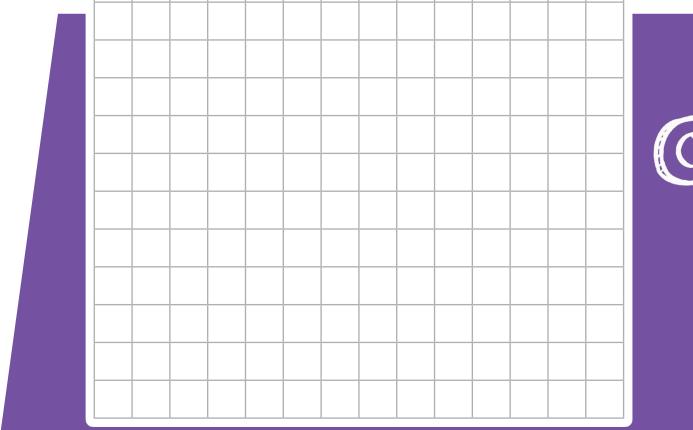
### Solve Problems

55. a) 2 equal bottles of water contain 500ml of drink. How many litres will 7 bottles hold?

b) A 6.5kg bag of soil is divided into 20 pots equally. Each pot needs 0.5kg. How much more soil does each pot need after the bag is used up?



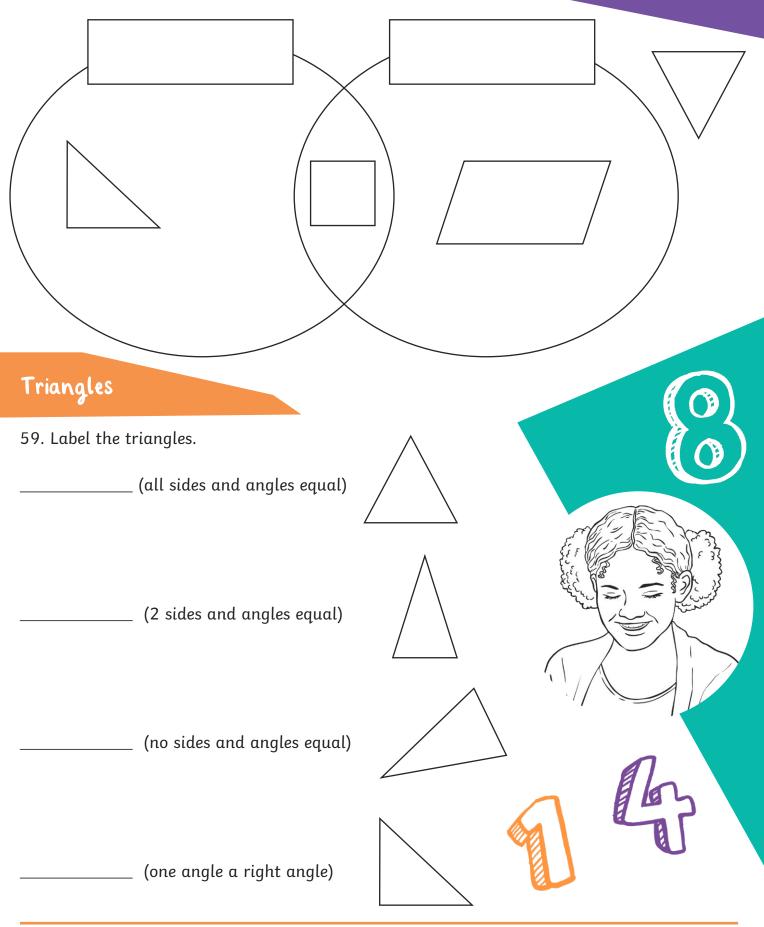






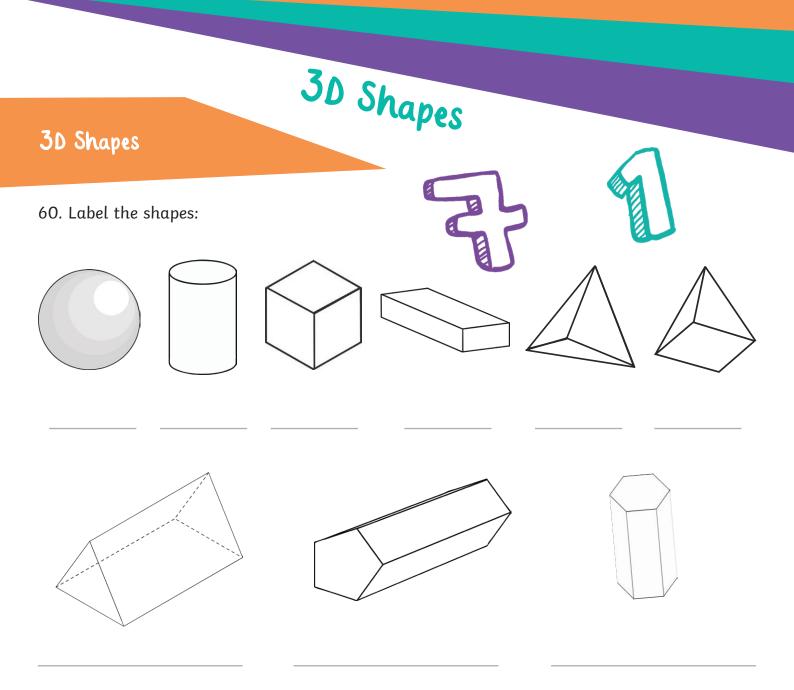








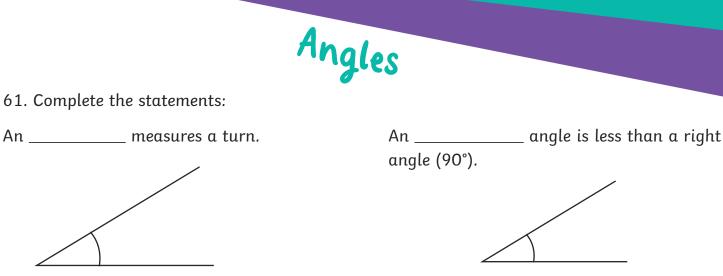




Recognise 2D representations and make models from modelling materials



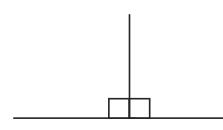


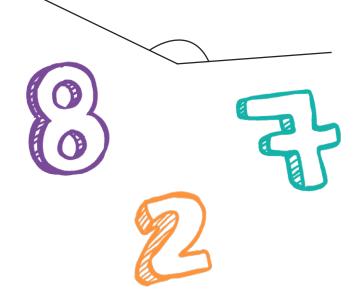


\_ \_\_\_\_ is the corner Α\_ of a square.

An \_\_\_\_\_\_ angle is between a right angle and a straight line.

\_\_\_\_\_ right angles make a straight line.





110

60

## Draw and Measure Angles

62. a) Measure the angle:



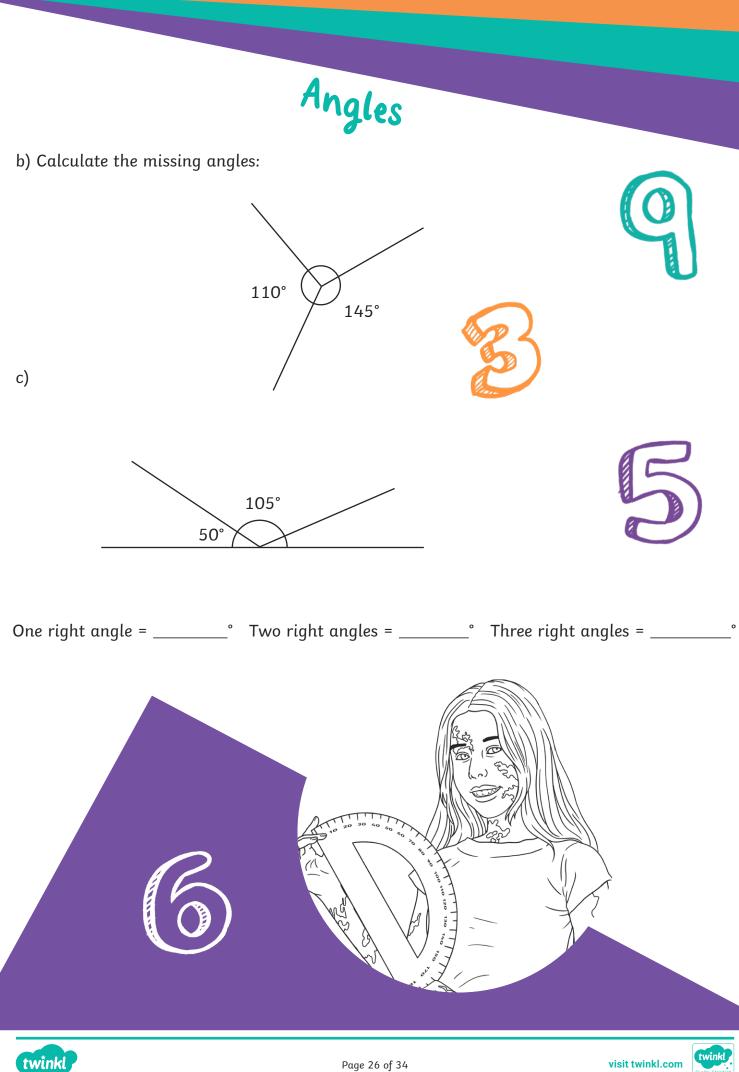


120

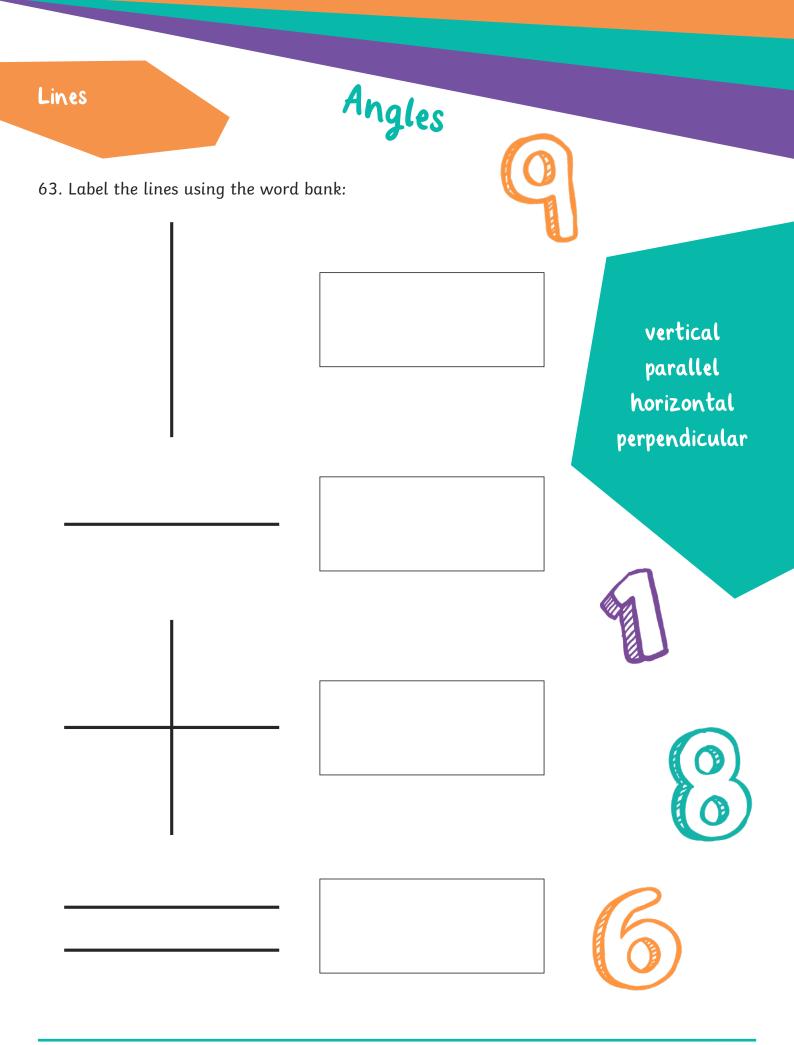
00

2

10 80 90 100 110 10 100 80 70



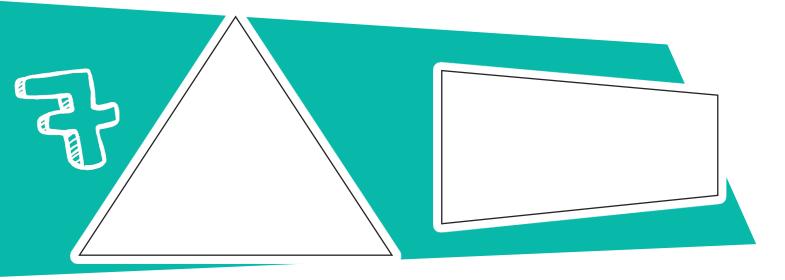
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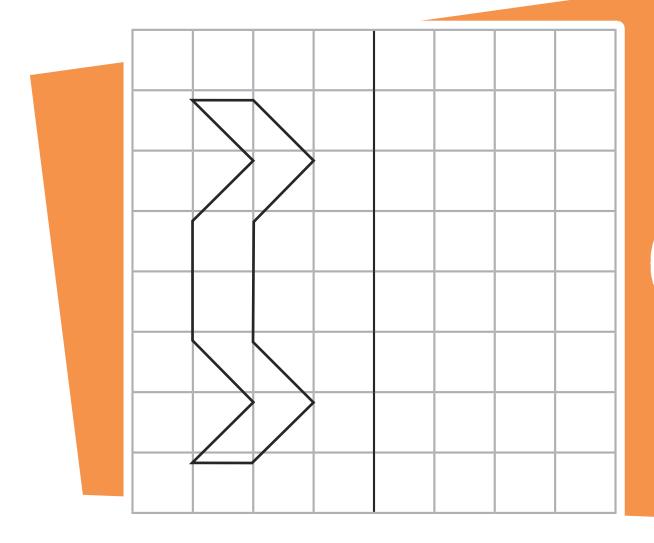




64. Mark the lines of symmetry in these shapes:

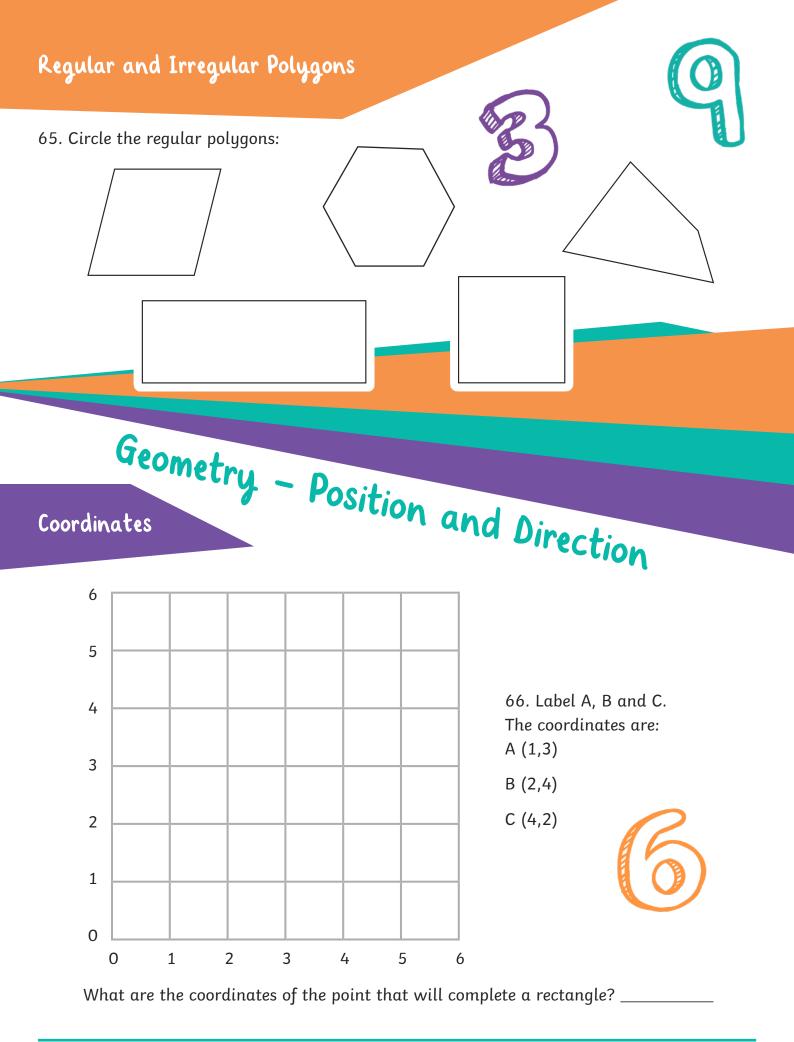


#### Complete the symmetrical figure:

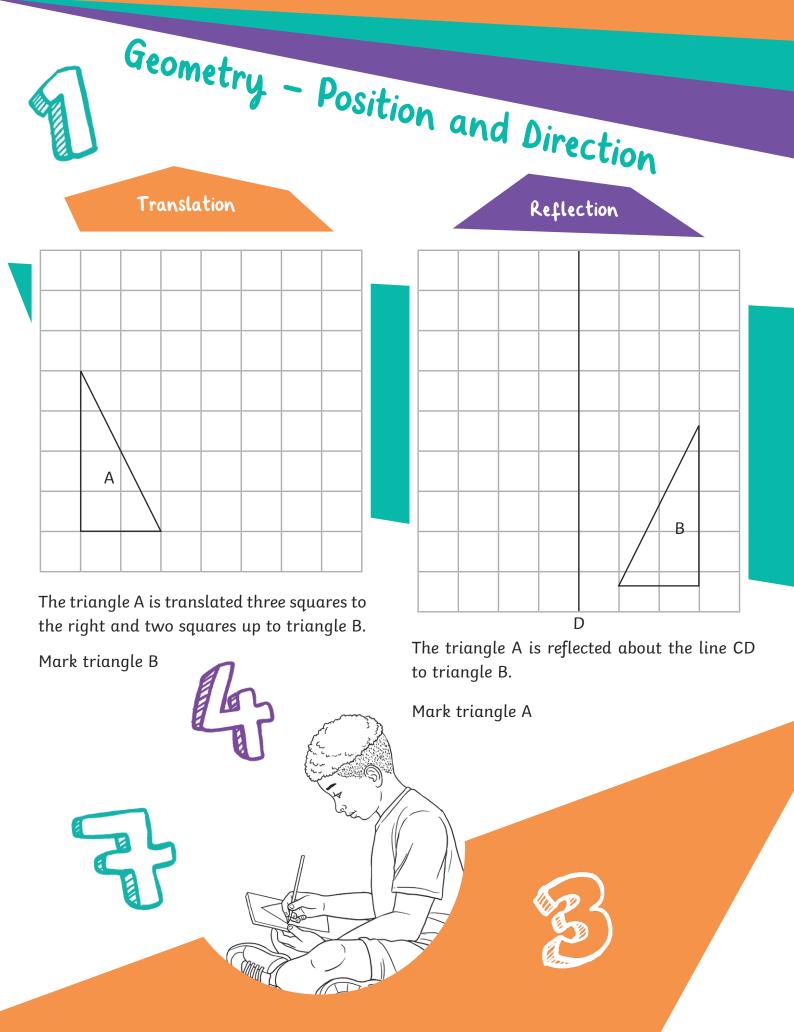




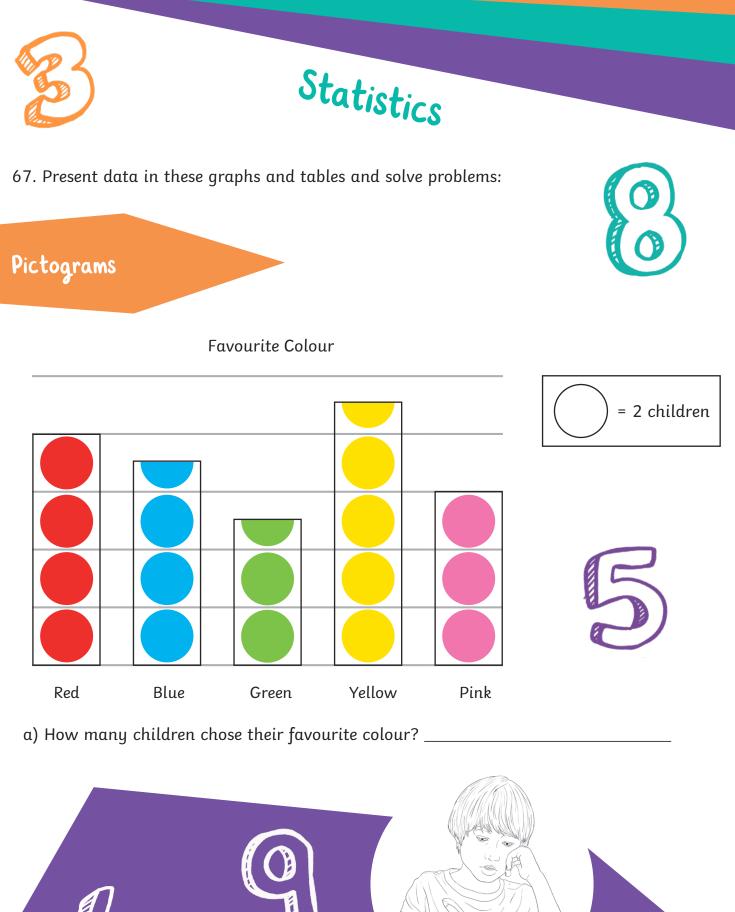










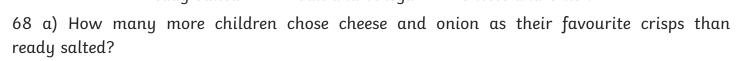


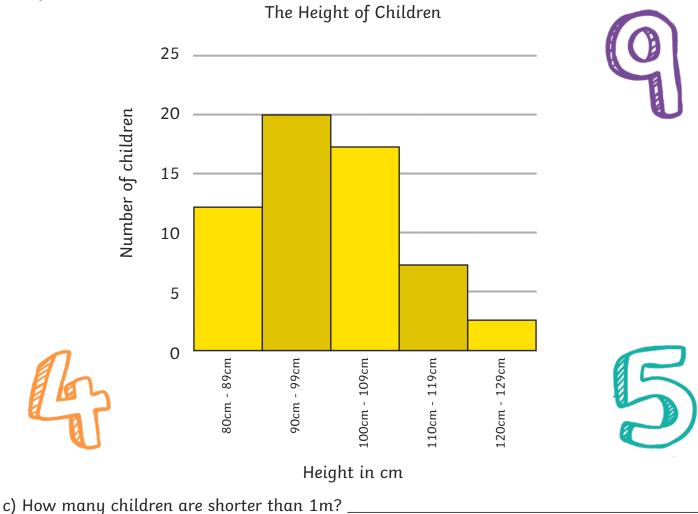














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# Tables



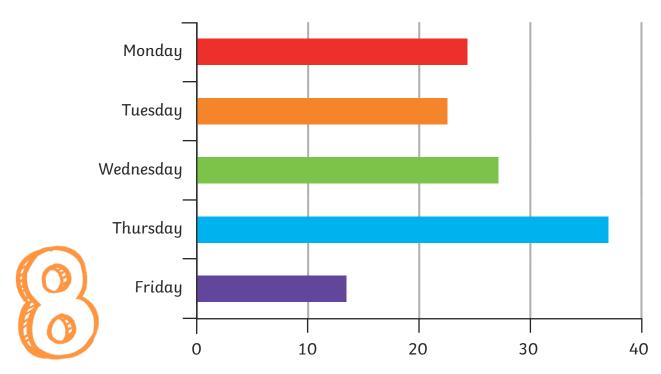
	Monday	Tuesday	Wednesday	Thursday
Saturn	2	1	3	4
Twin	0	2	2	3
Stars	5	3	2	0
Cluster	2	2	2	2
Treasure	1	3	5	0
Tiger	6	3	4	1
Plimmy	1	3	2	2

d) Which chocolate bar is the most popular? \_\_\_\_\_

Time Graphs

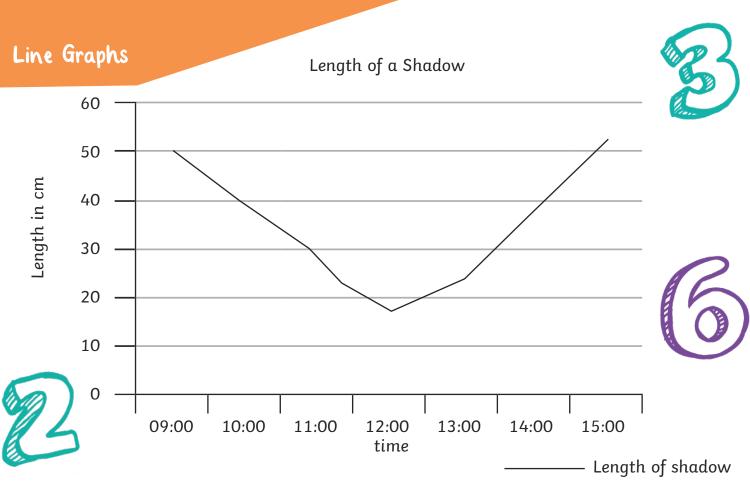


Number of Children Who Have a School Meal



e) How many children had a school meal during the week?





f) In which hour was the largest change in the length of the shadow? \_\_\_\_\_

# Time Graphs

Train timetable from London to Newcastle

Destination	Journey A	Journey B	Journey C
London	10:20	11:30	16:40
Derby	12:20		18:00
Sheffield	12:40	13:10	18:30
Hull	13:20	13:55	19:15
Newcastle	14:25	14:40	

g) Which train takes the least time to get from London to Hull? \_\_\_\_\_





# Number and Place Value Answers

## Counting

Count forwards and backwards in 4, 6, 7, 8, 9, 25, 50, steps of powers of 10 (10, 100, 1000, ... )

1. Continue the sequences:

7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77\_

625, 600, 575, 550, 525, 500, 475, 450, 425, 400

57 382, 67 382, 77 382, 87 382, 97 382, 107 382, 117 382

2. Find 10, 100 or 1000 more or less than a given number

What is 100 less than 1902? What is 1000 more than 3249?

1802

4249

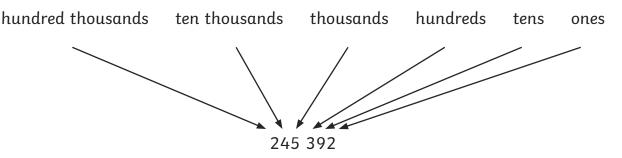
3. Count forwards and backwards through zero

Continue the sequence:

6, 5, 4, 3, 2, 1, 0, -1, -2, -3 **-4, -5, -6, -7, -8**.

## **Place Value**

Recognise the place value of each digit in up to four-digit numbers



4. Underline the thousands digit in 2769.

Underline the hundred thousands digit in  $\underline{3}47053$ .

Underline the tens digit in 209740.





## **Compare and Order Numbers**

#### Compare using <, > or =

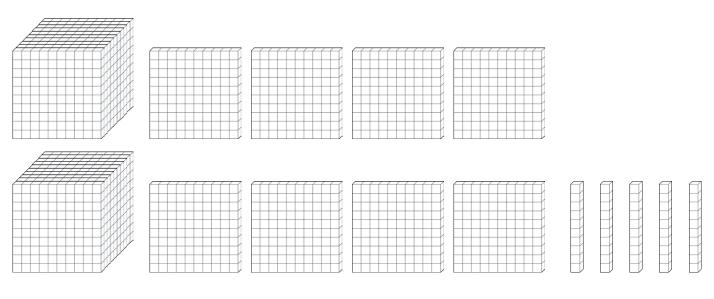
- 5. Write a number so that each sentence makes sense:
  - 141 141 > \_\_\_\_\_ accept answers less than 141 141
  - 144 114 = \_\_\_\_\_ accept only 144 114
  - 501 243 < \_\_\_\_\_ accept answers more than 501 243
- 6. Order the following numbers from largest to smallest:

Smallest	11 112	11 211	121 211	122 121	122 211	Greatest

# Identify, Represent and Estimate

Use models and representations of numbers

7. What number is shown? **2850** 



# Rounding

Round numbers to the nearest 10, 100, 1000, 10000 or 100000

8. 4500 rounded to the nearest 1000 is **5000** 

253 450 to the nearest 10 000 is **250 000** 





## Read and Write Numbers in Numerals and Words

9. Complete the table:

Numerals	Words
344 285	Three hundred and forty-four thousand, two hundred and eighty-five
855 102	Eight hundred and fifty-five thousand, one hundred and two
622 916	six hundred and twenty-two thousand, nine hundred and sixteen
120 563	One hundred and twenty thousand, five hundred and sixty-three

### **Roman Numerals**

10. Use the following Roman numerals to represent numbers to 100:

Roman	Numeral	
Ι	1	CCXIX = <b>219</b>
V	5	DCXXVI = <b>626</b>
X	10	CMXLVIII = 948
L	50	MDCCCLXXI = 1871
С	100	
D	500	
М	1000	

## Solve Problems

11. Here are 3 years written in Roman Numerals. Order the years from earliest to latest:

MCMXCIX	MMIX	MMXV
(1999)	(2009)	(2015)





# Addition and Subtraction Answers

## Add and Subtract Mentally

12. Add and subtract three-digit numbers and ones, tens and hundreds

 376 + 3 = 379
 376 + 40 = 416
 376 + 200 = 576

### **Mental Methods**

13. Add and subtract numbers mentally with larger numbers

15 672 – 3200 = **12 472** 

#### **Formal Methods**

14. Use a formal written method to calculate:

	7	2	6	9	8	
+	6	1	5	6	2	
1	3	4	2	6	0	
	8	4	9	3	5	
-	1	2	4	2	3	
	7	2	5	1	2	
	5 Ø	<sup>1</sup> 4	<sup>7</sup> 8	10 ∦∕	<sup>1</sup> 2	
-	2	9	3	6	4	
	3	5	4	4	8	



## **Estimate and Inverse**

15. Estimate by rounding to check accuracy.Use the inverse to check the following calculations. Circle 'correct' or 'incorrect.'

6470 + 1248 = 7718	<b>correct</b> /incorrect
5905 - 2674 = 2231	correct/ <b>incorrect</b>

#### **Solve Problems**

#### Multi-step problems

16. 8451 people visit a cinema on one day. There are two films showing. 3549 adults and 946 children see an adventure film, 1263 adults and a number of children see an animation.

How many adults are there? 4812

How many children are there? 3639

How many children see the animation? 2693

How many more children see the animation than the adventure film? 1747





# Multiplication and Division Answers

# **Multiplication Tables**

17. Fill in the missing numbers:

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

# Multiplying and Dividing

18. Use knowledge of place value and related facts to solve these calculations:

400 × 5 = **2000** 630 ÷ 7 = **90** 

Multiply by O and 1 and divide by 1:

285 × 1 = **285** 285 × 0 = **0** , 285 ÷ 1 = **285** 

Multiplying and dividing whole numbers and decimals by 10, 100 and 1000:

45 × 10 = <b>450</b>	6.7 × 100 = <b>670</b>	902 × 1000 = <b>902 000</b>
59 ÷ 10 = <b>5.9</b>	4506 ÷ 100 = <b>45.06</b>	382 ÷ 1000 = <b>0.382</b>



## **Factor Pairs and Commutativity**

19. What are all the factor pairs of 56? 1 and 56, 2 and 28, 4 and 14, 8 and 7

Use your factor pairs to solve: 56 pencils are shared between 4 tables. How many pencils does each table receive?

14

20. Change the order of the numbers in these calculation without changing the answer:

5 × 9 × 2 = 90 **2** × **9** × **5** = **90**, **2** × **5** × **9** = **90**, **9** × **2** × **5** = **90**, **9** × **5** × **2** = **90** 6 × 3 ×10 = 180 6 × **10** × **3** = **180**, **10** × **3** × **6** = **180**, **10** × **6** × **3** = **180** 

# **Prime Numbers**

21. List all the prime numbers up to 20. 2, 3, 5, 7, 11, 13, 17, 19

List all prime numbers between 20 and 30. 23, 29

What would be the first prime number after 100? 101

## **Square and Cube Numbers**

22. Write these numbers into the correct place in the table: 9, 144, 27, 4, 1, 8, 100, 81, 125, 16, 25, 64, 121

Square Numbers	Cube Numbers
1	1
4	8
9	27
16	64
25	125
64	
81	
100	
121	





# **Formal Methods**

23. Use formal written methods to multiply:

			2	7
		x		4
		1	0	8
			2	
		З	8	2
	x			7
	2	6	7	4
	2	6 5	7	4
	<b>2</b> 2			<b>4</b> 1
×		5	1	
x 1		5	1	1

24. a) Use the formal long multiplication method to calculate:

		2	7
	x	1	4
	1	0	8
	2	7	0
	3	7	8





b) Use a short division method to solve these problems:

		1	9			9	7	r	2
 4	7	6		5	4	8	7		

25. Fill in the missing numbers to complete the calculations.

**15** × 3 = 45 or 56 ÷ **4** = 14

#### Word Problems:

- 26. A teacher has four new boxes of pencils, each with 12 pencils, and a tray with 37 pencils. The teacher shares equally all the pencils between 5 tables. How many pencils does each table receive? Show your working out below.
- **12** × **4** = **48** new pencils.
- 48 + 37 = 85 pencils in total.
- 85 ÷ 5 = 17 pencils per table.

#### Scaling Problems with Simple Fractions

27. 12 pizzas are cut into quarters. Into how many pieces of pizza will the pizzas be cut?

12 × 4 = 48 pieces

#### **Correspondence** problems

- 28. Jenna has 2 t-shirts and 4 pairs of shorts. How many different combinations of the t-shirts and shorts does Jenna have? **8 different combinations**.
- 29. 120 pencils are shared equally between 3 classes. How many pencils will they each receive?

120 ÷ 3 = 40 pencils each.



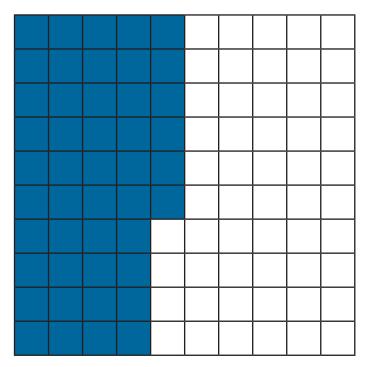


# **Fractions Answers**

30. Shade to show 7/10:



Shade to show 46/100:



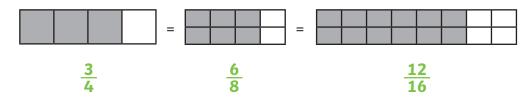
# **Equivalent Fractions**

31. Find  $\frac{5}{8}$  of these marbles by circling: Accept 20 marbles circled



# Fraction of a Set of Marbles

32. Write in the missing fractions





	1														
$\frac{1}{2}$												<u>1</u> 2			
	1 7	<u>l</u> +				<u>1</u> /+				<u>l</u> /+				<u>1</u> /+	
$\frac{1}{16}$															

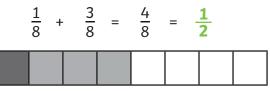
1											
		<u>1</u> 3				<u>1</u> 3				<u>1</u> 3	
	<u>1</u> 6		$\frac{1}{6}$	-	<u>1</u> 6		<u>1</u> 6	$\frac{1}{6}$ $\frac{1}{6}$			
$\frac{1}{12}$	<u>1</u> 12	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	<u>1</u> 12	$\frac{1}{12}$	$\frac{1}{12}$
$\begin{array}{c c} 1 \\ \hline 1 \\ \hline 24 \\ \hline 24 \\ \hline 24 \\ \hline \end{array}$	$\frac{1}{24} \frac{1}{24}$	$\frac{1}{24} \frac{1}{24}$	$\frac{1}{124}$ $\frac{1}{24}$	$\frac{1}{24} \frac{1}{24}$	$\begin{array}{c c} 1 \\ \hline 24 \\ \hline 24 \\ \hline 24 \\ \hline \end{array}$						

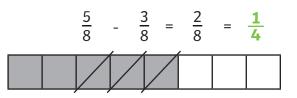
										1									
		<u>1</u> 5				<u>L</u>			L	<u>1</u> 5			L	<u>l</u>				<u>L</u> 5	
1	<u>1</u> 0	1	<u>1</u> 0	 1	<u>1</u> 0	1	<u>1</u> 0	1	L0	<u>-</u> 1	<u>L</u> 0	1	L0	<u>-</u> 1	<u>1</u> 0	$\frac{1}{1}$	L0	1 1	<u>1</u> 0
$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	$\frac{1}{20}$	<u>1</u> 20	<u>1</u> 20	$\frac{1}{20}$	<u>1</u> 20	<u>1</u> 20	$\frac{1}{20}$	<u>1</u> 20	$\frac{1}{20}$	<u>1</u> 20	<u>1</u> 20	$\frac{1}{20}$	<u>1</u> 20	$\frac{1}{20}$	$\frac{1}{20}$

33. Write 3 fractions that are equivalent to  $\frac{1}{3}$   $\frac{2}{6}$   $\frac{4}{12}$   $\frac{8}{24}$ 

# Add and Subtract Fractions with the Same Denominator and with Denominators that are Multiples

34. Find the missing equivalent fractions.







\_\_\_\_\_

## **Compare and Order**

Unit fractions

35. a) Order these fractions from smallest to greatest:

smallest

 $\frac{1}{8}$   $\frac{1}{6}$   $\frac{1}{4}$   $\frac{1}{3}$ 

greatest

b) Use <. > or = to compare these fractions:

<u>1</u> 5	<	<u>3</u> 5
<u>5</u> 8	>	$\frac{1}{4}$

# **Mixed Numbers and Improper Fractions**

36. Write the improper fraction:

Mixed fraction  $1\frac{2}{3} = -$  Improper fraction  $\frac{5}{3}$ 

# **Multiply Fractions**

37. Complete the missing fractions:

 $\frac{2}{3} \times 5 = \frac{10}{3} = 3\frac{1}{3}$ 

# Decimal Equivalents

38.Complete the missing tenths, hundredths and decimals:

$$\frac{7}{10} = 0.7$$
  $\frac{43}{100} = 0.43$ 

$$\frac{1}{4} = 0.25$$
  $\frac{1}{2} = 0.5$   $\frac{3}{4} = 0.75$ 

Write decimals as a fraction:

$$0.67 = \frac{67}{100}$$





## Division by 10 and 100

39.

2 ÷ 10 = **0.2** 2 ÷ 100 = **0.02** 25 ÷ 10 = **2.5** 25 ÷ 100 = **0.25** 

## **Rounding Decimals**

40. Round these decimals to the nearest whole number:

0.5 rounds to 1

2.35 rounds to 2

#### Round this decimal to one decimal place:

0.05 rounds to **0.1** 

## Read, Write, Order and Compare Decimals

41. Write the decimal in digits:

zero ones, four tenths and five hundredths. 0.45

two ones, three tenths and four hundredths. 2.34

#### Percentages

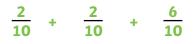
42. Complete the missing percentages:

5004	50 1	41
<b>50%</b>	$= \frac{100}{100} = \frac{1}{2}$	$41\% = \frac{41}{100}$

## **Solve Problems**

Fractions

43. Adil divides his marbles into tenths. He wants to give two friends an equal number of marbles but still have 3 times more than their individual amounts. What fractions could he split his marbles into?







### **Measure and Money Problems**

44. a) Ellie buys a new shirt for £4.75 and a pair of trousers for £3.50 in a sale. She pays with a £10 note. What change will she receive?

#### Ellie will receive £1.75 in change.

b) A bag of potatoes weigh 2.45kg. How much will 4 bags weigh?

9.8kg

# **Decimal Problems to 3 Decimal Places**

45. A packet of sugar weighs 1.348kg.  $\frac{3}{4}$  kg is used to bake some cakes. How much will the packet weigh now?

#### 1.348kg - 0.75kg = 0.598kg

# **Knowing Percentage and Decimal Equivalents**

46. Order the following from smallest to largest:

25%, 0.3,  $\frac{2}{5}$ 

25%,  $\frac{2}{5}$ , 0.3





# **Measurement Answers**

# Estimate, Measure, Compare, Add and Subtract

47.

# Lengths (mm/cm/m)

Measure and draw lines using a ruler in centimetres (cm) or millimetres (mm).

This line is **9.5cm** or **95mm** long.

# Mass (g/kg)

Measure the mass of objects using different scales

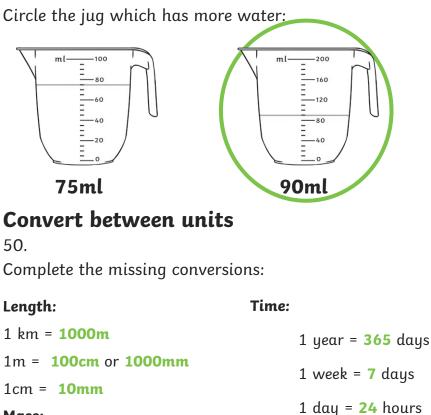
48. 3 apples weigh 435g. One is eaten, and the 2 remaining apples weigh 285g. What is the mass of the eaten apple? 15**0**q

1 hour = 60 minutes

1 minute = 60 seconds

# Capacity (ml/l)

49.



Mass:

1kg = **1000g** 

#### Capacity/ Volume:

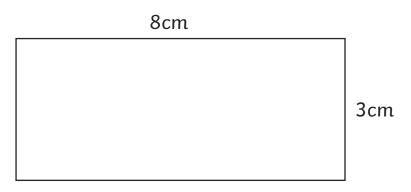
1| =1000ml





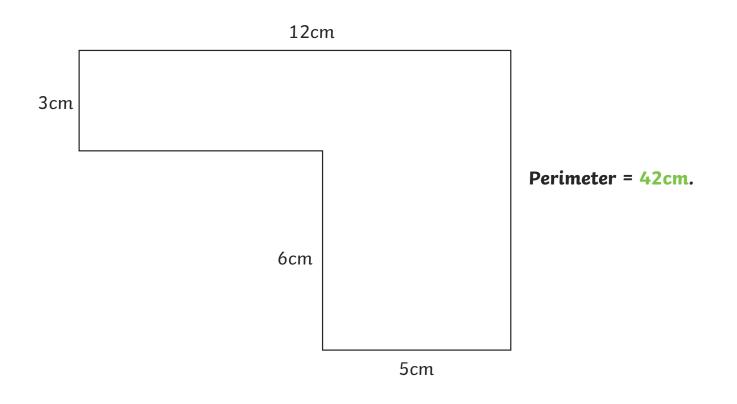
### Perimeter

51. Calculate the perimeter:



#### Perimeter = 22cm.

Measure and calculate the perimeter of rectilinear shapes (including squares)





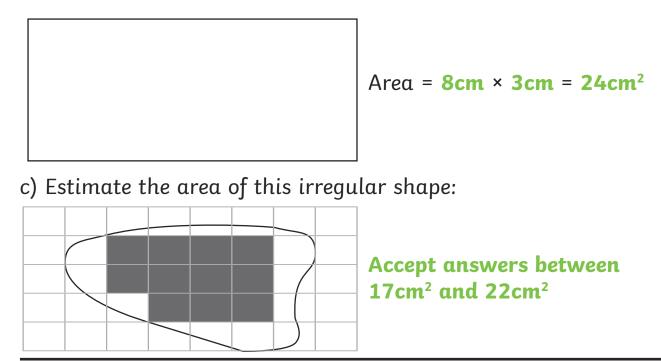


## Area

52. a) Calculate the area of this rectilinear shape by counting squares:

## Area = $71cm^2$

b) Measure the sides of the rectangle and calculate the area:







## Money

53. Add and subtract giving change

Jude buys a bag of apples for £2.25 and some avocados for £3.15. How much change will he get from £20?

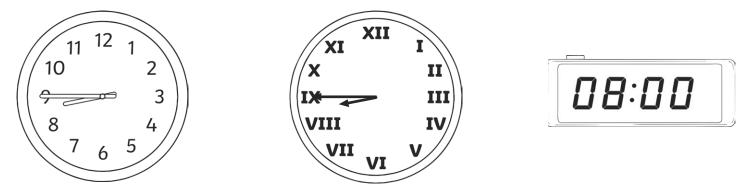
 $\pounds 2.25 + \pounds 3.15 = \pounds 5.40$ 

£20 - £5.40 = **£14.60** 

# Time

54. Analogue clocks and 12/24 hour time

a) What time do these clocks show? Quarter to 9, 08:45, or eight forty-five



b) The maths lesson lasted 1 hour and 5 minutes. The art lesson was one hour and twenty minutes. Which lesson was longer and by how long? **The art lesson was longer by 15 minutes** 

c) A film lasts 136 minutes. How long is the film in hours and minutes?

# 2 hours and 16 minutes

# Solve Problems

55. a) 2 equal bottles of water contain 500ml of drink. How many litres will 7 bottles hold?

**1.75** litres of water.

b) A 6.5kg bag of soil is divided into 20 pots equally. Each pot needs 0.5kg. How much more soil does each pot need after the bag is used up?

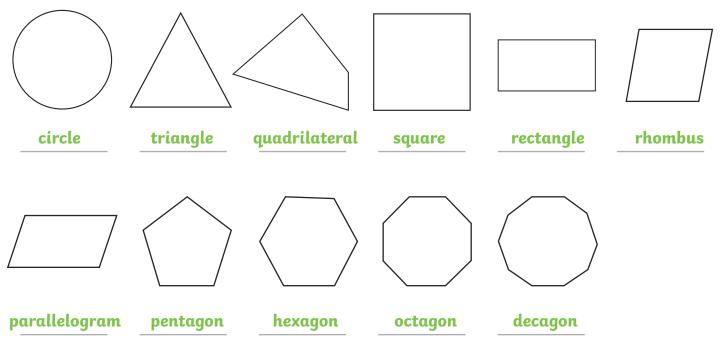
**175g** more soil is needed in each pot.





# **2D Shapes**

56. Label the shapes.



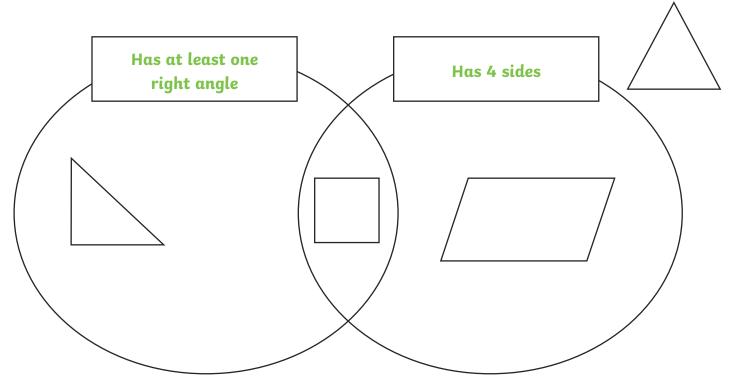
57. Draw a square on 1cm squared paper with sides of 4cm.

				Image: state of the state of	Image: Second state of the	Image: Sector of the sector	Image: Sector of the sector





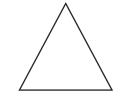
58. Write suitable titles for this Venn diagram:



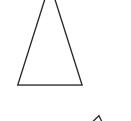
# Triangles

59. Label the triangles.

Equilateral (all sides and angles equal)



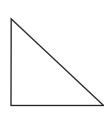
Isosceles (2 sides and angles equal)



**Scalene** (no sides and angles equal)



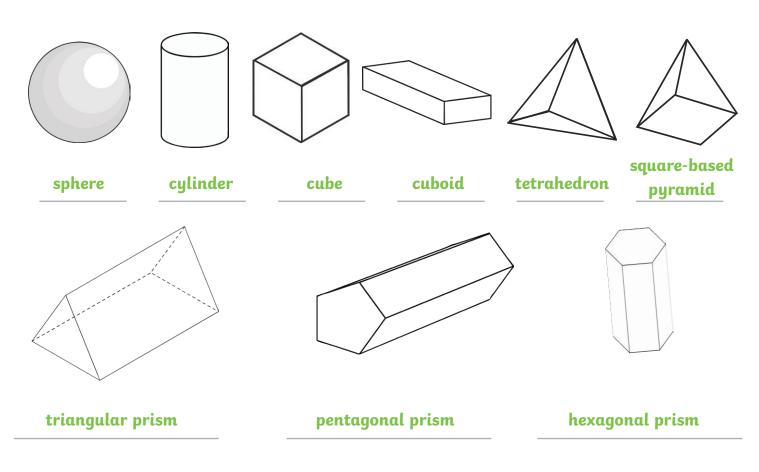
Right-angled triangle (no sides and angles equal)





## **3D Shapes**

60. Label the shapes:

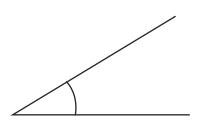


Recognise 2D representations and make models from modelling materials

## Angles

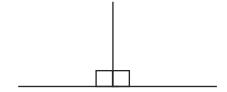
61. Complete the statements:

An **angle** measures a turn.

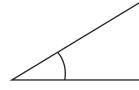


A **right angle** is the corner of a square.

**2** right angles make a straight line.



An **acute** angle is less than a right angle (90°).



An **obtuse** angle is between a right angle and a straight line.

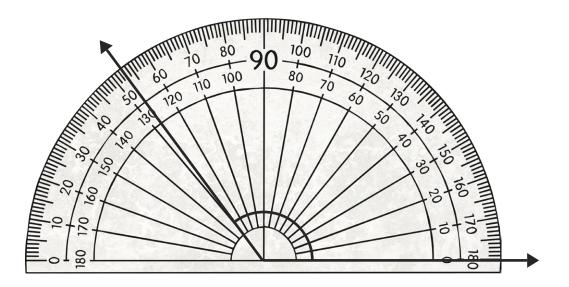






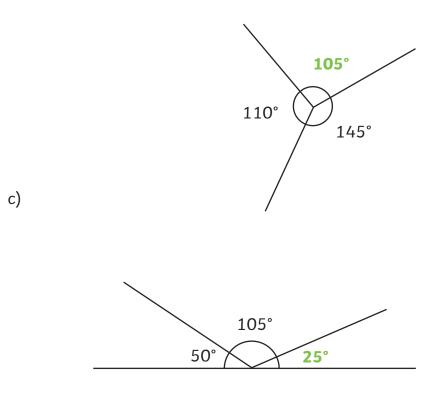
# **Draw and Measure Angles**

62. a) Measure the angle:



The angle measures **127°** 

b) Calculate the missing angles:



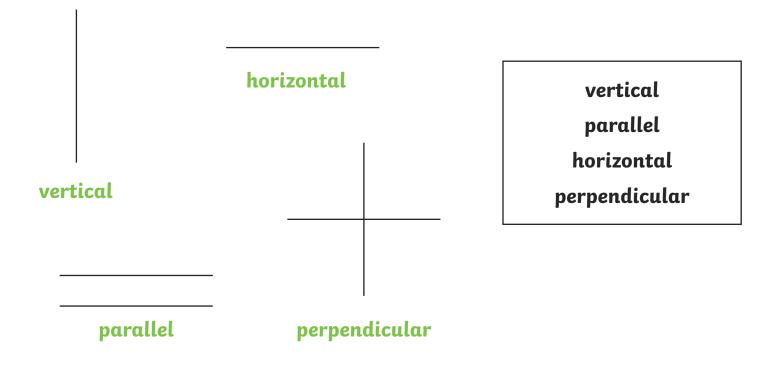
One right angle = 90° Two right angles = 180° Three right angles = 270°





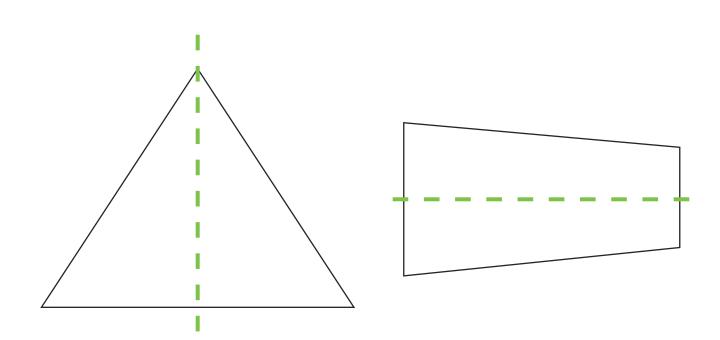
# Lines

63. Label the lines using the word bank:



# Symmetry

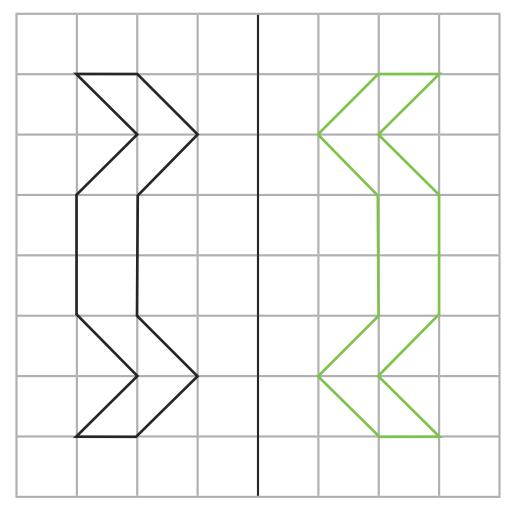
64. Mark the lines of symmetry in these shapes:





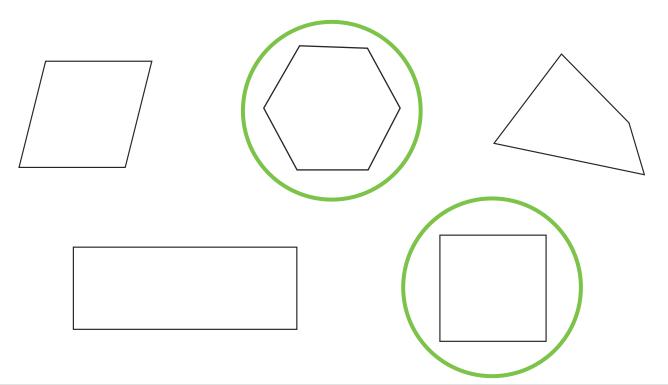


Complete the symmetrical figure:



# **Regular and Irregular Polygons**

65. Circle the regular polygons:



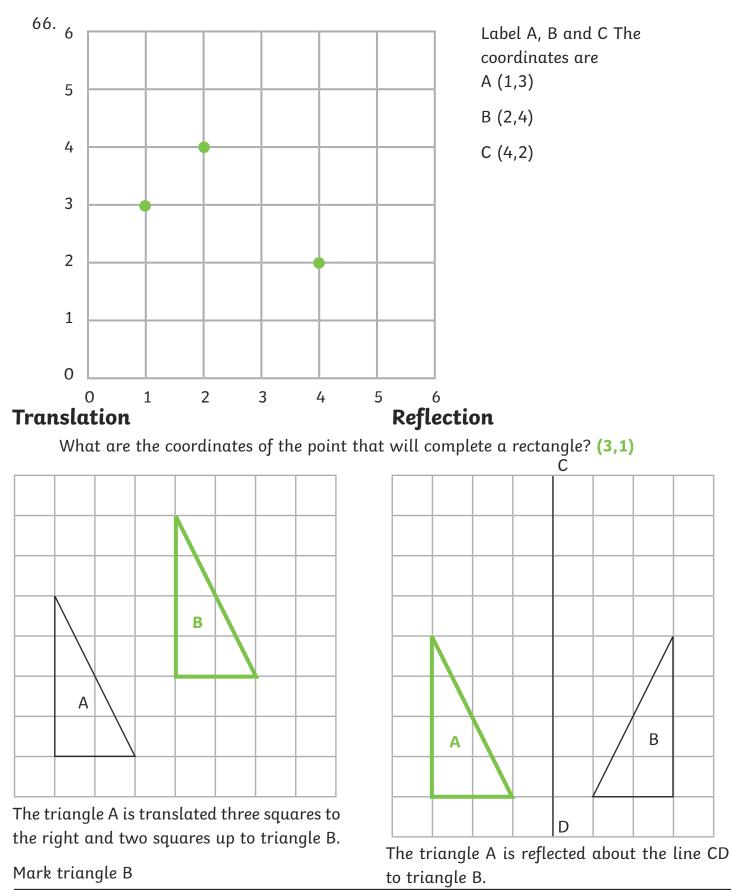






# Geometry – Position and Direction **Answers**

# Coordinates





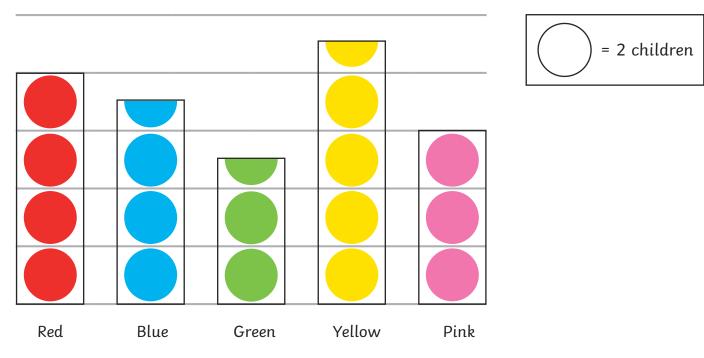


# **Statistics Answers**

67. Present data in these graphs and tables and solve problems:

**Favourite Colour** 

# Pictograms



a) How many children chose their favourite colour? 35

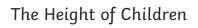
# **Bar Charts**

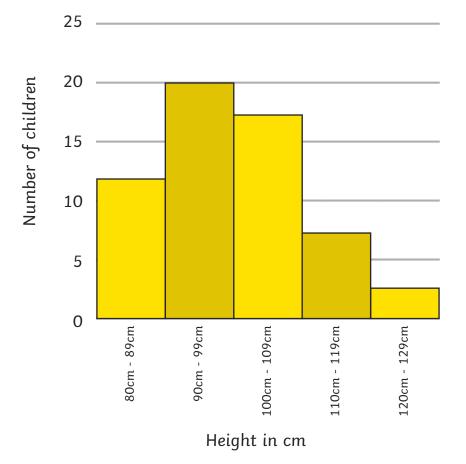


b) How many more children chose cheese and onion as their favourite crisps than ready salted? 10 children









c) How many children are shorter than 1m? 32 or 33 children

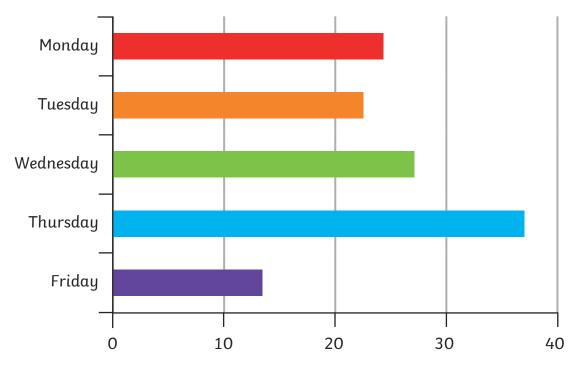
	Monday	Tuesday	Wednesday	Thursday
Saturn	2	1	3	4
Twin	0	2	2	3
Stars	5	3	2	0
Cluster	2	2	2	2
Treasure	1	3	5	0
Tiger	6	3	4	1
Plimmy	1	3	2	2

# Tables

d) Which chocolate bar is the most popular? **Tiger** 

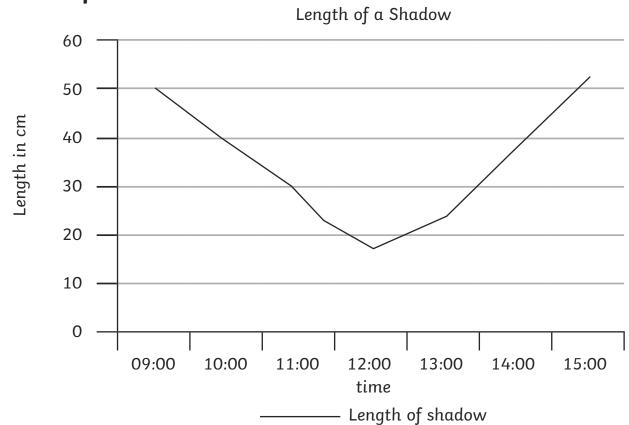


# **Time Graphs**



Number of Children Who Have a School Meal

e) How many children had a school meal during the week? Approximately 126 children



## **Line Graphs**

f) In which hour was the largest change in the length of the shadow? **Between 14:00 and 15:00** 



# Time Graphs

Train timetable from London to Newcastle

Destination	Journey A	Journey B	Journey C
London	10:20	11:30	16:40
Derby	12:20		18:00
Sheffield	12:40	13:10	18:30
Hull	13:20	13:55	19:15
Newcastle	14:25	14:40	

g) Which train takes the least time to get from London to Hull? Journey B is the shortest



