Sparx Maths



Year 7 Term 3

Revision Workbook

About this workbook

This workbook supports the revision of topics covered in Year 7 Term 3 of the Sparx Maths Curriculum.

The workbook is divided into two sections:

- Fluency questions on each unit to practise the key concepts.
- Mixed questions on all topics to strengthen and deepen understanding.
 This section contains more challenging reasoning questions, cross-topic questions and problem solving questions.

If you use Sparx Maths you can find more questions and videos by searching for the following Sparx topic codes in Independent Learning.

Topic codes are also given with each question.

Units			Sparx	(topic	codes
Angles		M502	M541	M780	M331
Finding unknown angles			M818	M163	M351
Averages and range		M328	M934	M841	M940
Tables and charts	M899	M597	M644	M460	M738
Collecting and presenting data		M945	M450	M127	M440
Proportion word problems					M478
Multiplying and dividing fractions	M216	M157	M110	M197	M265
Fractions of an amount				M695	M684
Fractions, decimals and percentages		M958	M264	M553	M235
Theoretical probability	M655	M941	M938	M755	M718



Calculator questions are marked with this symbol



Non-calculator questions are marked with this symbol

Q 1
M502



Α			B
Н			
(

What type of angle is

a) \widehat{ABC} ?

Answer:

b) \widehat{BCA} ?

Answer:

c) \widehat{CAB} ?

Answer:

Q2

M502

How many degrees (°) are there in a

a) full turn?

Answer:

b) half turn?

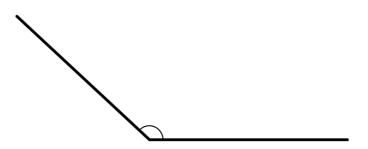
Answer:

c) quarter turn?

Q3 1541	Which of the following is the best estimate for this angle? $15^{\circ}~85^{\circ}~90^{\circ}~105^{\circ}~180^{\circ}$
	Answer:
Q4 1541	
	a) What type of angle is marked in the diagram? b) Estimate the size of the marked angle.
	Answer: a) b)
Q5	Use a protractor to measure the size of the angle below to the nearest degree.
1780	

	C	20	6	
٨	/17	78	8(
		=		

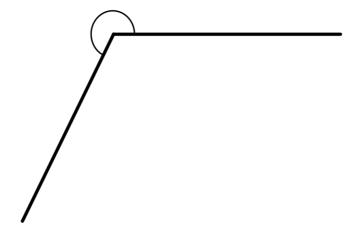
Use a protractor to measure the size of the angle below to the nearest degree.



Answer:

Q7 M780

Use a protractor to work out the size of the angle below to the nearest degree.



Angles

Q8 M331	In the space below, use a ruler and protractor to draw an angle of 70°
Q9 M331	In the space below, use a ruler and protractor to draw an angle of 130°
	In the space below, use a ruler and protractor to draw an angle of 130°
M331	In the space below, use a ruler and protractor to draw an angle of 130°
M331	In the space below, use a ruler and protractor to draw an angle of 130°
M331	In the space below, use a ruler and protractor to draw an angle of 130°
M331	In the space below, use a ruler and protractor to draw an angle of 130°
M331	In the space below, use a ruler and protractor to draw an angle of 130°

Finding unknown angles

Q1 1818	Work out the size of angle r . Not drawn accurately Answer:
Q2 1818	What is the size of angle g ? $ \begin{array}{c} 100^{\circ} \\ g \\ \hline 110^{\circ} \end{array} $ Not to scale
Q3 1163	Answer: Write down the two pairs of vertically opposite angles in the diagram below. Not drawn accurately Answer:

Finding unknown angles

Q4	
M163	

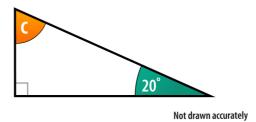
What is the size of angle r? Give your answer in degrees $(^{\circ})$.



r	
47°	16° Not drawn accurately

Answer:	

Q5 M351 Find angle c in the triangle below.



Answer:	(

Q6 M351 In this triangle, angles b and c are the same size. What is the size of angle b?



/3	8°
1	_
b	C
	Not drawn accurately

Answer:	

Averages and range

Q1 M934
M841 M940
Q2
M841

Find the mean, median and mode of the following numbers:

6, 1, 7, 4, 7

Answer: Mean: Median: Mode:

What is the mode of the numbers below? 17, 12, 14, 14, 12, 16, 12

Answer:

Q3

M328 M934



Find the range and median of these numbers:

4, 9, 3, 2, 8, 9

Answer: Range: Median:

Averages and range

Q4

M940

The table below shows the ages of three friends. What is their mean age?

_	_	_	
(-		_	1
ш		_	
1	-	-	
	-		

Person	Age
Ishaq	11
Isla	18
Elijah	13

Answer:

Q5

M328

What is the range of the numbers below?



Q6

M934



Work out the median of these numbers:

8, -11, 9, 3, 11, -8

Tables and charts

Q1

How many coffees were sold on Wednesday?

M899



Day	Number of coffees sold
Monday	17
Tuesday	3
Wednesday	9
Thursday	15

Α	n	C	۱۸.	α	r.
$\overline{}$	ш	3	٧v	ᆫ	

Q2

The table shows the shoe sizes of the students in Year 5.

M899



Shoe size	3	4	5	6	7
Frequency	21	13	$\overline{34}$	$\overline{25}$	2

Work out the total number of students in Year 5.

Α	n	C	١٨/	_	r.
$\overline{}$	MI.	3	٧V	ᆫ	١.

Q3

M899



The table shows how many medals some countries won in a sports contest. Which of these countries won the **most** medals in total?

	Spain	Mexico	Australia
Bronze	6	18	12
Silver	4	10	15
Gold	18	2	7

Tables and charts

Q4

M597 M945 A group of people were asked how many TVs they each have at home.

Their responses are given below.

Complete the table.



Res	ponse	S			
1	1	0	1	1	0
3	1	2	3	1	1

Number of TVs	Tally	Frequency
0		
1		
2		
3		

Q5

M644



How many students eat a school dinner?

What students eat at school

School dinner	
Packed lunch	0001

Α				_	
Δ	n	CΙ	Λ/	\mathbf{a}	r٠
$\overline{}$			vv	·	

Q6

M644



 $40\ \mathrm{people}$ were asked what their favourite fruit is. Draw the symbols to complete the apple section of the pictogram.

Favourite fruit

Banana	\oplus \oplus
Peach	\oplus
Apple	

	Key
\bigoplus	= 8 people

Key

= 4 students

Tables and charts

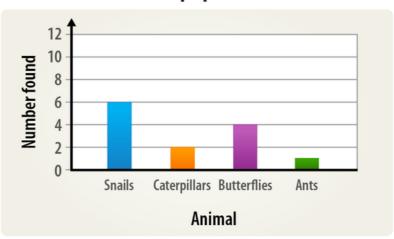
Q7

M738

Kyle investigated the number of animals in his garden and recorded his findings in this bar chart.

- a) What was the modal animal?
- b) How many of that animal did he find?

Animal populations



Answer: a)	b)	

Q8

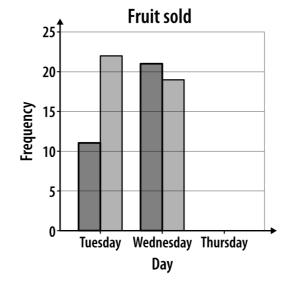
M460

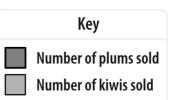


The data below is p	olotted on a dual	bar chart, but two	bars are missing.
---------------------	-------------------	--------------------	-------------------

Day	Plums Sold	Kiwis Sold
Tuesday	11	22
Wednesday	21	19
Thursday	14	20

Complete the dual bar chart.





Collecting and presenting data

Q1 M127 Theo asked his friends what their favourite meal was and recorded the results in the frequency table below. What was the **modal** response?



Meal	Frequency
Pizza	14
Stew	10
Curry	16
Salad	14
Fish pie	12

Answer:	

Q2 M127 Myles asked some of his classmates how many musical instruments they played and recorded their responses in the table below.

What is the **median** number of musical instruments played?

Number of instruments	Frequency
0	4
1	2
2	2
3	3

Answer:	

Collecting and presenting data

Q3

M127

Lenny asked a group of people how many newspapers they bought in one week. The results from his survey are shown below.

What is the mean number of newspapers each person bought?

Newspapers bought	Frequency
0	9
1	0
2	1
3	4

Answer:	

Q4 M440 The results that Charles, Isabella and Naomi achieved in four tests are shown in the table below.

They want to see who has the most consistent results.

Charles	46, 43, 39, 57
Isabella	69, 64, 62, 71
Naomi	94, 80, 61, 72

a) Which of the mean, median, mode or range should they calculate to help them decide?

Answer:	

b) Who achieved the most consistent results?

Proportion word problems

Q1 м478	$1\ \mathrm{minibus}\ \mathrm{can}\ \mathrm{seat}\ 14\ \mathrm{passengers}.$ How many passengers can be seated on $5\ \mathrm{identical}\ \mathrm{minibuses}?$
	Answer:
Q2 M478	7 identical sweets cost $28\mathrm{p}.$ How much does 1 of the sweets cost?
	Answer: p
Q3 M478	6 friends each bought one ticket to go to the theatre. Each ticket cost the same amount and the total cost was $\pounds 102$. How much did each ticket cost? Give your answer in pounds (\pounds) .
	Answer: \pounds

Proportion word problems

Q4 M478	A recipe for 3 people uses $150\mathrm{g}$ of flour. How much flour is needed to make the same recipe for 6 people?	
Q 5	Answer:	g
M478	answer in pounds (\pounds) .	
	Answer: \pounds	
Q6 M478	A carton of orange juice displays the nutritional information shown below. How many grams of $\hbox{\bf sugar}$ are there in a $200ml$ glass of juice?	
	Orange juice 250 ml contains Carbohydrate 21.4 g Sugar 18.5 g Protein 1.6 g	
	Answer:	g

Multiplying and dividing fractions

Q1

M157

What is $2 imes rac{2}{7}$?

Give your answer in its lowest terms.



Answer:

Q2

M157

Work out $\frac{2}{5} \times \frac{6}{7}$

Give your answer as a fraction in its simplest form.



Answer:

Q3 M157 Work out $\frac{3}{8} \times \frac{7}{15}$



Give your answer as a fraction in its lowest terms.

Multiplying and dividing fractions

Ā	

M216



- Work out the reciprocal of
- a) 7
- b) $\frac{7}{6}$
- c) $\frac{1}{6}$

Give each of your answers as an integer or as a fraction in its simplest form.

Answer: a) _____ b) ____ c) ____

Q5

M110



Work out $3\div \frac{13}{4}$

Give your answer as a fraction in its simplest form.

Answer:

Q6

M110

Work out $\frac{2}{7} \div \frac{3}{5}$ Give your answer as a fraction in its simplest form.

Multiplying and dividing fractions

Q7

M110

Work out $\frac{7}{12} \div \frac{2}{9}$

Give your answer as a fraction in its simplest form.



Answer:

Q8 M197

Calculate the value of $1rac{3}{7} imesrac{2}{5}$

Give your answer as a fraction in its simplest form.



Answer:

Q9 M265 Work out $\frac{1}{3} \div 2\frac{2}{5}$



Give your answer as a fraction in its simplest form.

Fractions of an amount

M695

What is $\frac{1}{2}$ of 28?



Answer:

Q2 M695 What is $\frac{1}{5}$ of £20?



Answer: \pounds

Q3 M695 Find $\frac{3}{5}$ of 20



Answer:

Q4

M695

Alice thinks of a number.



 $\frac{1}{6}$ of her number is 5. What is Alice's number?

Fractions of an amount

Q5

M695





The original price of a board game was $\pounds 50$. In a sale it was **reduced** by $\frac{1}{10}$ of its original price.

a) Work out how much the price was reduced by.

Answer: \pounds

b) Work out the sale price of the board game.

Answer: \pounds

Q6 M684 Work out $\frac{4}{5}$ of 801 Give your answer as a decimal.



Q	1

M958



Convert the following fractions to decimals:

Answer:



a) $\frac{38}{100}$

Answer:

Q2

M958



- Convert the following decimals to fractions in their simplest form:
- a) 0.77

Answer:

b) 0.7

Answer:

Q3

M264

1



What is $\frac{27}{100}$ written as a percentage?



Answer: %

Q4

M264

What is $\frac{9}{100}$ written as a percentage?

Q 5 //264	Write 0.3 as a percentage.		
		Answer:	%
Q6 //264	What percentage of this cal	ke is remaining ?	
		Answer:	%
Q 7 //264	What is 70% as a fraction? Give your answer in its simp	elest form.	
		Answer:	
Q8 //264	Write $\frac{1}{20}$ as a percentage.		
		Answer:	%

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M553

Write these values in ascending order (smallest to largest):

$$\frac{27}{100}$$
, 0.21,



Answer [.]				

Q10 M553 Write the values below in ascending order.

$$6\%, \frac{23}{50}, 0.4$$



Q11

M235



A sports club has $60\ \mathrm{members}.$

 $24\ \mbox{of the members}$ are boys and $36\ \mbox{of the members}$ are girls.

What percentage of the members are boys?

	Answer:
M264	What percentage of the students in the class wear glasses? Give your answer to 1 d.p.
Q13	3 of the 29 students in a class wear glasses.
	Answer:
Q12 M264	Sara buys a bag of sweets and $\frac{7}{28}$ of the sweets in the bag are red. What percentage of the sweets are red?

Q1

M655

A probability scale is shown below.



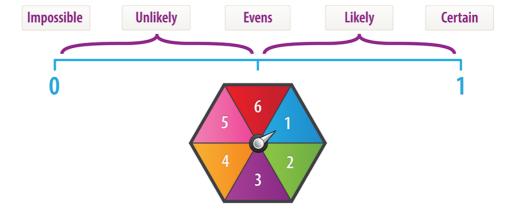
Impossible	X	Evens	Y	Z
0		W		1

a) Which of the following words should replace each of X, Y and Z?

Likely, Certain, Impossible, Unlikely, Evens

b) What value should replace W?

Q2 M655 Choose the correct word to describe the probability of this fair spinner landing on a number greater than 2.



Answer:	

Q3 M941	The arrow on this fair spinner is spun. What is the probability that it stops on a shaded section? Give your answer as a fraction in its simplest form.
	Answer:
Q4 M938	There are 10 marbles in a bag. 3 of them are green. What is the probability of picking a green marble at random from this bag? Write your answer as a) a fraction
	Answer: b) a decimal
	Answer:
Q5 M755	Nyla owns 13 films. 9 of her films are romance films. She chooses one of her films at random. What is the probability that it is not a romance film? Give your answer as a fraction in its simplest form.
	Answer:

Q6

M755

A bag contains 4 blue, 5 green and 2 purple counters.

One counter is picked at random.

What is the probability that the counter is green or purple?

Give your answer as a fraction.

Answer:	

Q7

A company has 25 employees. Each person travels to work using only one type of transport.

The probability that an employee chosen at random cycles to work is $\frac{6}{25}$.

The probability that they walk to work is $\frac{12}{25}$.

What is the probability that an employee chosen at random **either** cycles **or** walks to work? Give your answer as a fraction in its simplest form.

Answer:	

Q8 M755

The table below shows the probability that a random letter on a page in a book will be a vowel (A, E, I, O or U). What is the probability that a random letter is not a vowel? Give your answer as a decimal.

Letter	Probability
Α	0.15
Е	0.18
I	0.11
0	0.09
U	0.06

Answer:	

Q9

Which two of the events below are mutually exclusive if a fair six-sided dice is rolled once?

M755



Rolling a reven number

Rolling a reven number

Rolling a rolling a square number

Q10 M718 The diagram below shows all the possible outcomes of flipping a fair coin and spinning a fair spinner with three equal sections.

What is the probability of the outcome being tails and 3?

Give your answer as a fraction in its simplest form.

		Spinner				
		1	2	3		
Coin	Н	H, 1	H, 2	H, 3		
ප	T	T, 1	T, 2	T, 3		

Answer:

Q11 M718

Maisy rolls two fair 6-sided dice. She multiplies together the two numbers rolled on the dice to get a score.

What is the probability that Maisy's score is **greater than** 19? Give your answer as a fraction in its simplest form.

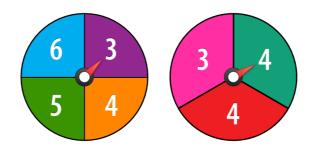
×	1	2	3	4	5	6
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36

Q12

M718



The diagram shows two fair spinners.



a) Draw a sample space diagram to show all the possible outcomes of spinning both of the spinners.

b) What is the probability that at least one spinner lands on 4? Give your answer as a fraction in its simplest form.



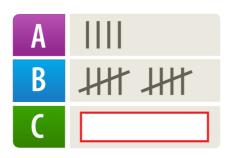
Q1 1264	Finley thinks of a decimal number. It is larger than $\frac{27}{100}$ but smaller than 35% . The number only has one decimal place. What number is he thinking of?	
	Answer:	
Q2 1655	Elisha has a bag containing five red balls and one white ball . Elisha is going to pick a ball at random. How many more white balls should Elisha put in the bag so that it is just as likely that she pick a red ball as a white ball?	will
	Answer:	
Q3 4478	Finn is stacking identical cube-shaped boxes. He stacks 7 boxes to make a tower that is $112\mathrm{cm}$ tall. He adds 1 more box to the tower. How tall is the tower now?	
	Answer:	cn
		-

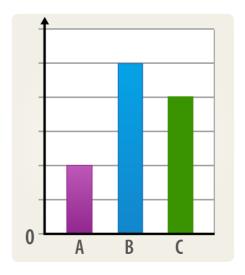


Q4

M738 M597 The tally chart and the bar chart below show the same information. What tally should go in the empty box?







Q5 M958

Work out
$$0.43+rac{17}{100}+rac{3}{10}$$



Give your answer as a decimal.

Answer:

Q6

M328 M841 M440



Victoria calculates the range of her number cards and finds that it is the same as the mode. What must the value of the missing card be?











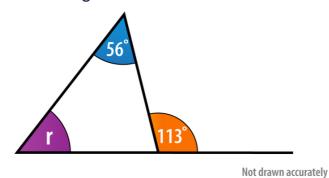


Q7

M818 M351



Find the size of angle r.



Anguar	0
Answer.	

Q8

M755 M264



A spinner has four sections labelled A, B, C and D. The probabilities of it landing on sections A, B and C are shown in the table below.

What is the probability, as a percentage, of the spinner landing on section D?

Section	Probability
А	<u>1</u> 20
В	0.23
C	37%
D	?

Answer:	%
,	/ 0



Q9

M934

If we add the number 18 into the following list as a sixth value, then how much does the median increase by?



10, 23, 6, 3, 19

Answer:

Q10 M695 Blake, Ethan and Sienna own a total of 77 books between them.

IVIO73

Blake owns $\frac{3}{11}$ of the books and Ethan owns $\frac{4}{7}$ of the books.



How many books does Sienna own?

Answer:

Q11

Work out $-15 imes 2rac{4}{5}$

M197 M288 Give your answer as an integer or as a fraction in its lowest terms.





Q12

M478



Look at the poster below showing the price of pencils in a stationery shop. Evie wants to buy exactly 64 pencils. What is the lowest amount she can pay? Give your answer in pounds (\pounds) .



Answer:	£	

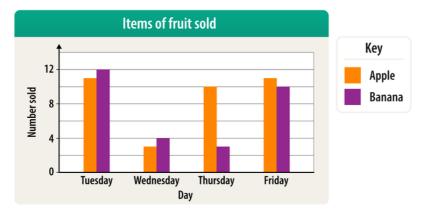
Q13 M738

A shop sells items of fruit for 30p each. This bar chart shows how many apples and bananas the shop sold on four days last week.



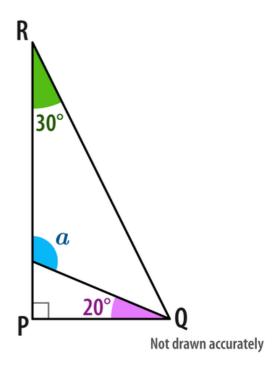
How much more money did the shop take from selling bananas on Friday than from selling bananas on Wednesday?

Give your answer in pence (p).





Q14 M351 The diagram shows triangle PQR. Work out the size of angle a.



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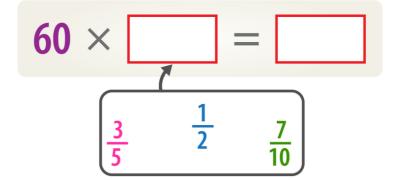
Answer:

Q15 M157

James writes down the number 60. He wants to multiply it by one of the fractions below to get the biggest answer possible.

Which of the three fractions below should he use? What is the answer to this multiplication?







Q16

M264



11 of the 40 trees in a park are ash trees. What percentage of the trees in the park are **not** ash trees? Give your answer to 1 d.p.

Answer: %

Q17

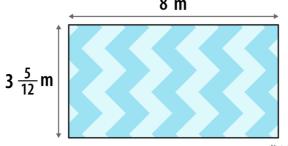
M197



Bridget has designed a rectangular rug, which is shown below.

What is the total area, in m^2 , of this rug?

Give your answer as a whole number or as a fraction in its simplest form.



Not drawn accurately

Answer: m²

Q18

M264 M934



What is the median value in this list? $\frac{6}{10}$, $\frac{1}{2}$, 0.9, 75%, 0.03

Answer:



Q19

M328

M934

M940

M440

The minimum of the set of number cards below is 4

The **range** of the cards is 8

The **mean** of the cards is 7

Find the values of the number cards.







Answer:

Q20 M110

Calculate the number that should go in the box below.



$$6\div\frac{15}{\boxed{}}=\frac{18}{5}$$

Q21

M899 M939 What fraction of the students have more brothers than sisters? Give your answer in its lowest terms.



Number of brothers

The table below shows how many brothers and sisters some students in Year 9 have.

		0	1	2
isters	0	8	13	34
Number of sisters	1	12	29	6
Numb	2	24	2	9

Answer:



Q22

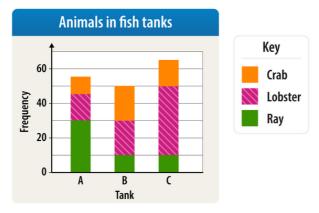
M738

M755

A marine biologist has three fish tanks. The tanks contain only crabs, lobsters and rays. The bar chart below shows the numbers of each type of animal in each tank.

If one of the animals in tank B is chosen at random, what is the probability that it is either a crab or a lobster?

Give your answer as a fraction in its simplest form.



An	ISW	er:

Q23 M478 On the speedometer of a car there are 90° between $10\,mph$ and $60\,mph.$ How many degrees (°) are there between $20\,mph$ and $50\,mph$?





Not drawn accurately

Answer:			(
/ 1113 VV C1 .			



Q24

M934

The median of the following list is 20. Find the value of t.

2t, 4t, 6t, 9t



Answer:

Q25

M695



Martha spent $\frac{1}{6}$ of her pocket money on magazines.

She then spent $\frac{4}{5}$ of what she had left on a present.

After that, she had $\pounds 3$ left.

How much pocket money did she have to start with? Give your answer in pounds (\pounds) .

Answer: \pounds

Q26

M940 M440

An animal shelter is looking after 40 foxes and 10 otters.

The mean mass of the foxes is $5.0\,\mathrm{kg}.$

The mean mass of the otters is $8.0\,\mathrm{kg}.$

What is the mean mass of all the foxes and otters in the shelter?

Give your answer in kilograms (kg) as a decimal.

Answer:



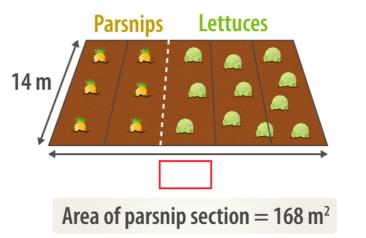
Q27

M695



Farmer Freya has a rectangular field. $\frac{2}{5}$ of the field is planted with parsnips and the rest is for lettuces. The width of her field is $14\,\mathrm{m}$.

What is the length of her field?



Not to scale

Q28

M899



Members of a sports club are junior, adult or senior.

80 of these members were asked whether they prefer tea, coffee or hot chocolate.

25 members are senior, of which 13 prefer coffee.

10 juniors prefer tea.

There are no adult members who prefer hot chocolate.

2 out of the 18 juniors prefer coffee.

 $4\ \mathrm{out}\ \mathrm{of}\ \mathrm{the}\ 28\ \mathrm{members}\ \mathrm{who}\ \mathrm{prefer}\ \mathrm{tea}\ \mathrm{are}\ \mathrm{seniors}.$

What fraction of members in the club prefer hot chocolate?

Give your answer as a fraction in its simplest form.

Angles

Q1 a) Acute

b) Acute

c) Right

Q2 a) 360°

b) $180~^\circ$

c) $90~^\circ$

 $\mathbf{Q3}$ 85°

Q4 a) Reflex

b) $280~^\circ$

Q5 82 °

Q6 137 °

Q7 244 °

Q8 Correctly drawn angle

Q9 Correctly drawn angle

Finding unknown angles

Q1 155 °

Q2 150 °

 ${f Q3} \qquad d \ {
m and} \ n$, $v \ {
m and} \ k$

Q4 63°

Q5 70 °

Q6 71 °

Averages and range

Q1 Mean: 5

Median: 6

Mode: 7

Q2 12

Q3 Range: 7

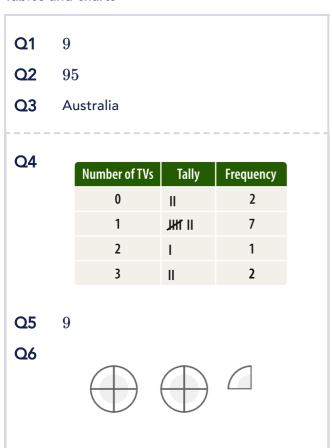
Median: 6

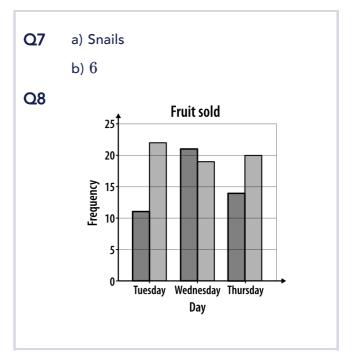
Q4 14

Q5 14.5

Q6 5.5

Tables and charts





Collecting and presenting data

Q1 Curry

Q2 1

Q3 1

Q4 a) Range

b) Isabella was most consistent

Proportion word problems

Q1 70

Q2 4 p

Q3 £ 17

Q4 300 g

Q5 £ 135

Q6 14.8 g

Multiplying and dividing fractions

Q1 $\frac{4}{7}$

Q2 $\frac{12}{35}$

Q3 $\frac{7}{40}$

Q4 a) $\frac{1}{7}$

b) $\frac{6}{7}$

c) 6

Q5 $\frac{12}{13}$

Q6 $\frac{10}{21}$

Q7 $\frac{21}{8}$

Q8 $\frac{4}{7}$

Q9 $\frac{5}{36}$

Fractions of an amount

Q1 14

Q2 £ 4

Q3 12

Q4 30

Q5 a) \pounds 5

b) £ 45

Q6 640.8

Fractions, decimals and percentages

Q1 a) 0.38

b) 0.3

Q2 a) $\frac{77}{100}$

b) $\frac{7}{10}$

Q3 27 %

Q4 9 %

Q5 30 %

Q6 90 %

Q7 $\frac{7}{10}$

Q8 5 %

Q9 $0.21 \rightarrow \frac{27}{100} \rightarrow \frac{3}{10}$

Q10 $6\% \rightarrow 0.4 \rightarrow \frac{23}{50}$

Q11 40 %

Q12 25

Q13 10.3 %

Theoretical probability

Q1 a) X: Unlikely

Y: Likely

Z: Certain

b) W: $\frac{1}{2}$

Q2 Likely

Q3 $\frac{2}{5}$

Q4 a) $\frac{3}{10}$

b) 0.3

Q5 $\frac{4}{13}$

Q6 $\frac{7}{11}$

Q7 $\frac{18}{25}$

Q8 0.41

Q9 Rolling a square number Rolling a

prime number

Q10 $\frac{1}{6}$

Q11 $\frac{2}{9}$

Q12 a)

	3	4	4
3	3,3	3,4	3,4
4	4,3	4,4	4,4
5	5,3	5,4	5,4
6	6,3	6,4	6,4

b) $\frac{3}{4}$



Q1 0.3

Q2 4

Q3 128 cm

Q4



Q5 0.9

Q6 5

Q7 57 $^{\circ}$

Q8 35 %

Q9 4

Q10 12

Q11 -42

Q12 £ 13.60

Q13 180 p

Q14 110 °

Q15 $60 \times \frac{7}{10} = 42$

Q16 72.5 %

Q17 $\frac{82}{3}$ m²

Q18 $\frac{6}{10}$

Q19 4 5 12

Q20 9

Q21 $\frac{53}{137}$

Q22 $\frac{4}{5}$

Q23 $54\,^\circ$

Q24 4

Q25 £ 18

Q26 5.6 kg

Q27 30 m

Q28 $\frac{7}{40}$