

Make sure you check your answers and show all your working out. Try to make your work is well laid out and easy to read – if the examiner cannot understand what you have written they cannot award you any marks.

Have we said, "Show your working out"?





WEEK 2 TASK 2Estimated completion time = 30 minutes.

Answer all questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The pictogram shows information about the number of chocolate cakes, vanilla cakes and lemon cakes sold by Year 7 at a school fair.

| Chocolate | $\bigcirc \bigcirc $ | Key: |
|-----------|---|---------------------|
| Vanilla | $\bigoplus \bigoplus \bigcirc \square$ | represents 12 cakes |
| Lemon | $\bigoplus \left\{ \right\}$ | |
| Banana | | |

9

-2

3

24 banana cakes were sold by Year 7

(*a*) Use this information to complete the pictogram.

At the fair, Year 8 sold a total of 150 cakes.

(b) Which Year sold most cakes at the fair, Year 7 or Year 8? You must show how you get your answer.

> (3) (Total for Question 1 is 4 marks)

(1)

7 -5 Write these numbers in order of size. Start with the smallest number.

| •••••• | •••••• |
|----------|---------------------------|
| (Total f | for Question 2 is 1 mark) |

Write 35% as a decimal. 3

2

..... (Total for Question 3 is 1 mark) 4 Here is a grid of squares.

5

6

7

| field is a gifa of squares. | | | | |
|--|-------------------------|----------------|-----------------|---------------------------------|
| | | | | |
| | | | | |
| | | + + | | |
| | | | | |
| What fraction of the grid | is shaded? | | | |
| | | | | |
| | | | (Total fo | r Question 4 is 1 mark) |
| Write the number three th | ousand one hund | red and seve | en in figures. | |
| | | | | |
| | | | (Total fo | or Question 5 is 1 mark) |
| Here are the first four terr 97 | ns of a number se 91 | equence. 85 | 79 | |
| (a) Explain how to work | out the next num | ber of the so | equence. | |
| | | | | |
| (<i>b</i>) Work out the differer | nce between the 5 | th term and | the 7th term of | (1) f the sequence. |
| | | | (Total for | (2) • Question 6 is 3 marks) |
| Gabriel thinks of a numbe | er. | | | |
| He multiplies his number His answer is 72 | by 5 and then add | ls 7 | | |
| What number did Gabriel | think of? | | | |
| | | | | |
| | | | | |

(Total for Question 7 is 3 marks)

| Person | Number of books |
|--------|-----------------|
| Ximena | 7 |
| Martha | 9 |
| Kezia | 1 |
| Tabby | 5 |

8 The table shows the number of books read by four people in one month.

On the grid, draw a bar chart to show the information in the table.



(Total for Question 8 is 3 marks)

9 A travel agent sold 100 holidays in April.
Each of these holidays was in the UK or was abroad.
64 of the 100 holidays were sold to families.
The rest of the holidays were sold to couples.
11 of the 18 holidays abroad were sold to couples.
Use this information to complete the frequency tree.



10 Write
$$\frac{3}{10}$$
 as a percentage.

.....% (Total for Question 10 is 1 mark)

(Total for Question 9 is 3 marks)

11 Simplify m + m + m + m

(Total for Question 11 is 1 mark)

12 Write down a number that is less than -5

(Total for Question 12 is 1 mark)

13 Here is a 4-sided spinner.



Samina spins the spinner once.

Choose the word that best describes the probability that the spinner lands on a number less than 4

| impossible | unlikely | evens | likely | certain |
|------------|----------|-------|--------|---------|
| | | | | |

(Total for Question 13 is 1 mark)

.....

14 Wayne begins walking at 8 30 am. He walks for 1 hour and 45 minutes. Wayne then rests for 15 minutes. He then walks for 85 minutes to a cafe. Does Wayne get to the cafe before 12 noon? You must show how you get your answer. 15 There are only red counters, blue counters and green counters in a bag. number of red counters : number of blue counters : number of green counters = 2 : 16 : 7 What fraction of the counters in the bag are green counters?

(Total for Question 15 is 2 marks)

TOTAL FOR PAPER IS 30 MARKS



Write 1.59 correct to 1 decimal place

Write the following numbers in order of size. Start with the smallest number -6 6 -5 0 12

Write 80% as a fraction

Simplify $3f \times 5g$

Write down a square number that is between 10 and 50

Write down the mathematical name for the type of angle marked y



Estimated completion time = 30 minutes.

Answer all questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Max sees this special offer in a shop.

Buy one large plate and get one small plate for half the normal price.

The normal price of a large plate is £2 The normal price of a small plate is 80p

Max wants to buy 6 large plates and 6 small plates using this offer. He has ± 15

Has Max got enough money? You must show how you get your answer.

(Total for Question 1 is 4 marks)



Write down the coordinates of the midpoint of AB.

(.....) (Total for Question 2 is 1 mark)

3 There are 3 litres of oil in a can. Jermaine uses 700 millilitres of the oil.

Work out the amount of oil left in the can. Give your answer in millilitres.

..... millilitres

(Total for Question 3 is 3 marks)

| 4 (a) Work out the size of the angle mark | dx. |
|---|-----|
|---|-----|

| | 50° |
|--|--|
| | |
| | |
| A student says that an angle of 50° is an obtuse angle. | |
| The student is wrong. | |
| (b) Explain why. | |
| | |
| | (1) (Total for Question 4 is 3 marks) |
| 1 | |
| Work out $\frac{1}{5}$ of 300 | |
| 5 | |
| 5 | |
| 5 | |
| 5 | |
| 5 Selina has a bag of 22 counters. | |
| S Selina has a bag of 22 counters. 5 of the counters are blue. 9 of the counters are red. 8 of the counters are pink. | |
| Selina has a bag of 22 counters. 5 of the counters are blue. 9 of the counters are red. 8 of the counters are pink. Selina takes at random a counter from the bag. | |

..... (Total for Question 6 is 1 mark) 7 Here is a list of numbers. 2 4 4 7 8 Work out the range of these numbers. (Total for Question 7 is 1 mark) 8 Simplify $\frac{15a}{3}$

(Total for Question 8 is 1 mark)

*9 The scatter graph shows information about the ages and weights of some babies.



(a) Describe the relationship between the age and the weight of the babies.

(1) Another baby has a weight of 5.8 kg

(b) Using the scatter graph, find an estimate for the age of this baby.

..... months

(2)

(Total for Question 9 is 3 marks)

10 Matt is drawing a scale diagram.

1 cm represents 5 m.

The real distance between two points is 20 m.

What is the distance between the two points on the scale diagram?

| | | | | | T) | otal for Que | estion 10 is 1 mark |
|-------------------|-----|---|---|---|-----|--------------|---------------------|
| Here are 6 number | ſS. | | | | | | |
| | 13 | 5 | 4 | 9 | 3 | 8 | |
| Work out the mean | n. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | (To | otal for Que | stion 11 is 2 marks |

The exam is out of 60 marks.

Shah needs to score at least 70% of the marks to pass the exam. He scores 45 marks.

Show that Shah passes the exam.

(Total for Question 12 is 2 marks)

13 Measure the size of the angle marked *x*.



(Total for Question 13 is 1 mark)

14 There are 200 counters in a bag.

38 counters are red.52 counters are blue.

The rest of the counters are yellow or green. There are the same number of yellow counters as green counters.

What percentage of the counters in the bag are yellow?

.....%

(Total for Question 14 is 4 marks)



On the grid, draw an enlargement of the triangle with a scale factor of 3

(Total for Question 15 is 2 marks)

TOTAL FOR PAPER IS 30 MARKS









MARKSCHEMES



Answer all questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The pictogram shows information about the number of chocolate cakes, vanilla cakes and lemon cakes sold by Year 7 at a school fair.

| Chocolate | $\bigcirc \oplus \oplus \oplus \oplus \bigcirc \bigcirc$ | 60 | Key: |
|-----------|--|----|----------------------|
| Vanilla | 12 12 12 3 | 39 | represents 12 cakes |
| Lemon | 12 6 | 18 | 1 mark for |
| Banana | 1 mark | 24 | any of the totals |

24 banana cakes were sold by Year 7

(*a*) Use this information to complete the pictogram.

At the fair, Year 8 sold a total of 150 cakes.

(b) Which Year sold most cakes at the fair, Year 7 or Year 8? You must show how you get your answer.

60+39+18+24 = 141 ^{1 mark} Final mark year 8 sold the MOSE Must be supported by (1 (3) (Total for Question 1 is 4 marks) correct working 2 7 -5 3 9 -2 Write these numbers in order of size. Start with the smallest number. 3 7 9 1 mark ~ 5 - 2 (Total for Question 2 is 1 mark) 3 Write 35% as a decimal.

(Total for Question 3 is 1 mark)

1 mark

0.35

(1)

4 Here is a grid of squares.



What number did Gabriel think of?



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| Person | Number of books |
|--------|-----------------|
| Ximena | 7 |
| Martha | 9 |
| Kezia | 1 |
| Tabby | 5 |

8 The table shows the number of books read by four people in one month.

On the grid, draw a bar chart to show the information in the table.



9 A travel agent sold 100 holidays in April.
Each of these holidays was in the UK or was abroad.
64 of the 100 holidays were sold to families.
The rest of the holidays were sold to couples.
11 of the 18 holidays abroad were sold to couples.
Use this information to complete the frequency tree.



(Total for Question 12 is 1 mark)

Spring 2024 – Aiming for Grade 1 © Pearson Education Ltd. **13** Here is a 4-sided spinner.



Samina spins the spinner once.

Choose the word that best describes the probability that the spinner lands on a number less than 4



14 Wayne begins walking at 8 30 am. He walks for 1 hour and 45 minutes. Wayne then rests for 15 minutes. He then walks for 85 minutes to a cafe. Does Wayne get to the cafe before 12 noon? You must show how you get your answer.



15 There are only red counters, blue counters and green counters in a bag.

number of red counters : number of blue counters : number of green counters = 2 : 16 : 7What fraction of the counters in the bag are green counters?



TOTAL FOR PAPER IS 30 MARKS



Answer all questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Max sees this special offer in a shop.

Buy one large plate and get one small plate for half the normal price.

The normal price of a large plate is £2 The normal price of a small plate is 80p

Max wants to buy 6 large plates and 6 small plates using this offer. He has $\pounds 15$

Has Max got enough money? You must show how you get your answer.

6 large plates = £2×6 = £12 1 mark 6 small plates = 6×40p = £2·40 1 mark $Total = |2 + 2 \cdot 40 = E | 4 \cdot 40 \quad 1 \text{ mark}$ Max has enough money 14.40 < 15 (Total for Question 1 is 4 marks) **Final mark**

Must be supported by correct working



Write down the coordinates of the midpoint of AB.



Final mark

3 There are 3 litres of oil in a can. Jermaine uses 700 millilitres of the oil.

> Work out the amount of oil left in the can. Give your answer in millilitres.

$$\begin{array}{l} l \ lvbre = 1000 \ mQ \\ \hline 3 \ vbres = 3000 \ mQ \\ \hline 3 \ column 1 \ mark \\ \hline 3 \ column 2 \ column 2 \ column 2 \ column 3 \ column 2 \ column 3 \ column 2 \ column 3 \$$

| • | (<i>a</i>) Work out the size of the angle marked <i>x</i> . | x 50° |
|---|--|---|
| | 360 - 50 1 mark | 30 |
| | | 310 Final mark。 |
| | A student says that an angle of 50° is an obtuse angle | (2) |
| | The student is wrong. | |
| | (<i>b</i>) Explain why. 1 mark | |
| | 50° would le an acute angle | 2 not oblise |
| | | |
| | | (1) (Total for Question 4 is 3 marks) |
| 5 | Work out $\frac{1}{5}$ of 300 | (1) (Total for Question 4 is 3 marks) |
| 5 | Work out $\frac{1}{5}$ of 300 300 \div 5 | (1) (Total for Question 4 is 3 marks) |
| 5 | Work out $\frac{1}{5}$ of 300 $300 \div 5$ | (1) (Total for Question 4 is 3 marks) |
| 5 | Work out $\frac{1}{5}$ of 300 300 \div S | (1) (Total for Question 4 is 3 marks) 60 1 mark (Total for Question 5 is 1 mark) |
| 5 | Work out $\frac{1}{5}$ of 300 $300 \div 5$ Selina has a bag of 22 counters. | (1) (Total for Question 4 is 3 marks) 60 1 mark (Total for Question 5 is 1 mark) |
| 5 | Work out $\frac{1}{5}$ of 300 $300 \div 5$ Selina has a bag of 22 counters. 5 of the counters are blue. | (1) (Total for Question 4 is 3 marks) 60 1 mark (Total for Question 5 is 1 mark) |
| 5 | Work out $\frac{1}{5}$ of 300 300 \div 5 Selina has a bag of 22 counters. 5 of the counters are blue. 9 of the counters are red. 8 of the counters are pink | (1) (Total for Question 4 is 3 marks) 60 1 mark (Total for Question 5 is 1 mark) |

Selina takes at random a counter from the bag.

Write down the probability that Selina does not take a pink counter,



<u>14</u> 1 mark 22 (Total for Question 6 is 1 mark) Or equivalent hadron



*9 The scatter graph shows information about the ages and weights of some babies.



(a) Describe the relationship between the age and the weight of the babies.

| its a positive correlation so as the bal | 1 mark |
|--|--------|
| | U |
| gets older the more it weighs | ······ |
| 0 | |
| | (1) |

Another baby has a weight of 5.8 kg

(b) Using the scatter graph, find an estimate for the age of this baby.



(Total for Question 9 is 3 marks)

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1 cm represents 5 m.

The real distance between two points is 20 m.

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Show that Shah passes the exam.



(Total for Question 12 is 2 marks)

13 Measure the size of the angle marked *x*.



14 There are 200 counters in a bag.

38 counters are red.52 counters are blue.

The rest of the counters are yellow or green.

There are the same number of yellow counters as green counters.

What percentage of the counters in the bag are yellow?



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2 marks if fully correct shape drawn

15 1 mark for correct base length or correct height if two marks not awarded



On the grid, draw an enlargement of the triangle with a scale factor of 3

(Total for Question 15 is 2 marks)

TOTAL FOR PAPER IS 30 MARKS







