

Bond

No.1 for exam success

11+ Maths

Multiple-choice Test Papers

Pack 2

Test 3

Read the following carefully:

- Do not begin the test or open the booklet until told to do so.
- Work as quickly and as carefully as you can.
- Answers should be marked in pencil in the answer booklet provided, not in this test booklet.
- You may do rough working on a separate sheet of paper.
- If you make a mistake rub out the mistake and write the new answer clearly.
- Be careful to keep your place in the accompanying answer booklet.
- You will have 50 minutes to complete the test.
- Calculators should not be used.

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- 1 Which of these numbers lies halfway between 2.2 and 2.3?

A 2.4 B 2.5 C 2.24 D 2.25 E 2.35

- 2 If 9 is the third square number, what is the sixth?

A 18 B 36 C 25 D 54 E 25

- 3 How many lines of symmetry does this shape have?



A 0 B 1 C 3 D 5 E 7

- 4 $(2b) + a = c$
If $a = 7$ and $b = 12$, what is c ?

A 21 B 26 C 31 D 36 E 41

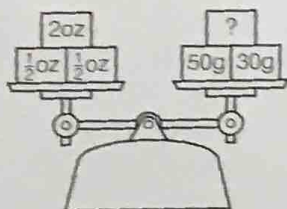
- 5 How many days are there in a decade if the first year is a leap year?

A 3653 days B 3650 days C 3657 days D 3560 days E 3663 days

- 6 Twelve local schools took part in a choir competition.
Five of the choirs each had 35 members, four of the choirs each had 38 members, two each had 42 and one had 25.
How many children in total took part in the competition?

A 411 B 419 C 431 D 436 E 461

- 7 What weight is needed to balance these scales?



A 1g B 10g C 15g D 25g E 35g

- 8 Find the median of these weights.

25g 34g 27g 31g 33g 29g 27g 37g

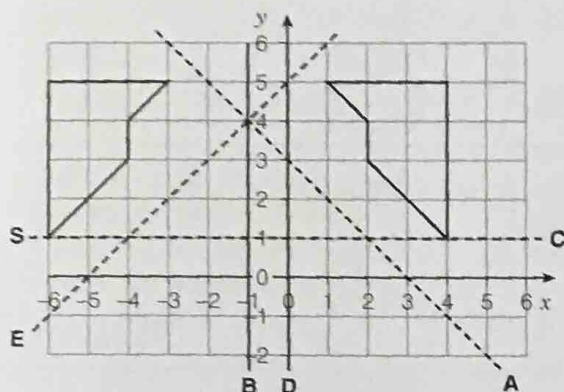
A 29g B 31g C 27g D 34g E 30g

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- 9 The rule for a sequence is 'add each number to the number that comes before it'. The sequence starts with the number 1, followed by 7.
What will the 6th number in the sequence be?

A 15 B 23 C 35 D 38 E 61

- 10-11 Which of these lines is the correct mirror line for these shapes?



What is the coordinate of point S.

A (-6, 1) B (6, -1) C (1, 6) D (-1, 6) E (-6, -1)

- 12 $a + b = 4b - b$

If $b = 9$, what is the value of a ?

A 27 B 9 C 18 D 4 E 36

- 13 How many factors does the number 36 have?

A 6 B 7 C 8 D 9 E 10

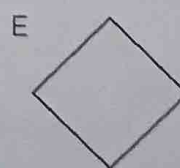
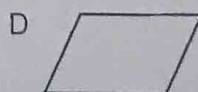
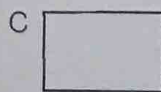
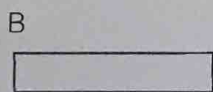
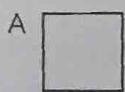
- 14 At a pet rescue centre there is a ratio of 2 cats to every 7 dogs. There are currently 18 cats.
How many dogs do they have at the centre?

A 90 B 36 C 63 D 81 E 72

- 15 What is 89952 rounded to the nearest hundred?

A 89000 B 89900 C 89800 D 90000 E 90100

- 16 Which shape is the odd one out?



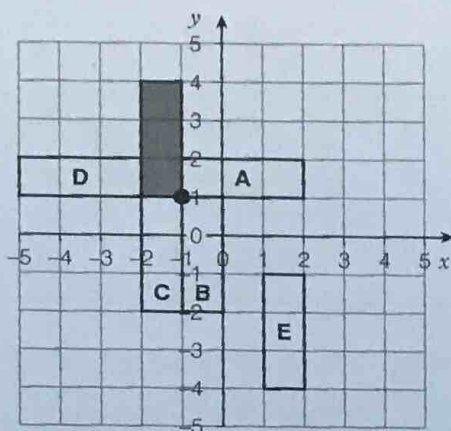
- 17** Jeremy bought a pair of trainers in the sale. Their original price was £35.00. He paid 20% less than the original price.
How much did the trainers cost him?

A £28.00 B £30.00 C £31.50 D £24.50 E £30.50

- 18** In Romania distance is measured in kilometres. The Jackson family were visiting from England. Whilst there they drove 88 kilometres to visit a bear sanctuary.
Approximately how many miles had they driven?

A 11 miles B 66 miles C 44 miles D 55 miles E 22 miles

- 19** Rotate this shaded shape through 180° about the vertex marked with a dot.
Which lettered shape correctly shows its new position?



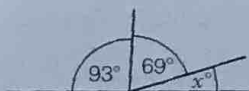
- 20** Which two numbers can both be divided exactly into 345?

A 22 and 15 B 24 and 13 C 23 and 15 D 25 and 13 E 24 and 15

- 21** What is the decimal equivalent of $\frac{13}{10}$?

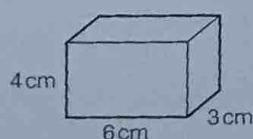
A 0.13 B 1.3 C 0.013 D 13.13 E 1.13

- 22** Find the missing angle.



A 22° B 20° C 18° D 21° E 19°

- 23** Look at this shape. What is its volume?



A 12 cm^3 B 24 cm^3 C 13 cm^3 D 72 cm^3 E 84 cm^3

Continue to the next page

- 24** Jess kept a record of how long it took her to walk home from school each day. The time she took varied depending on whether she walked alone or with friends. On one day she took a detour.

Find the total time it took Jess to walk home from school during the week.

Monday	21 minutes, 15 seconds
Tuesday	17 minutes, 39 seconds
Wednesday	42 minutes, 31 seconds
Thursday	18 minutes
Friday	25 minutes, 20 seconds

- A 2 hours, 4 minutes, 45 seconds
 B 2 hours, 5 minutes, 5 seconds
 C 1 hour, 24 minutes, 45 seconds
 D 1 hour, 54 minutes, 5 seconds
 E 123 minutes, 45 seconds

- 25** Which digit in this number has a place value showing 'hundredths'?

493.285

A 4

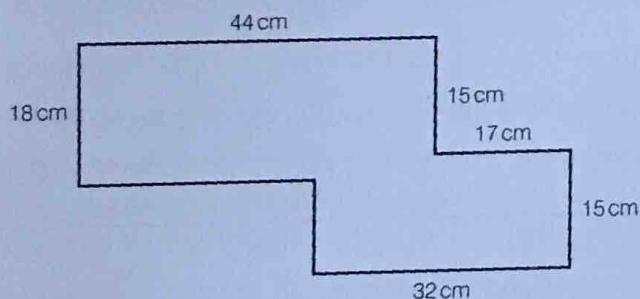
B 9

C 2

D 8

E 5

- 26–27** Look carefully at this shape. It isn't drawn to scale.



What is the perimeter of the shape?

A 128 cm

B 153 cm

C 141 cm

D 170 cm

E 182 cm

What is the area of the shape?

A 1389 cm²

B 1227 cm²

C 977 cm²

D 1482 cm²

E 1065 cm²

- 28** What is $\frac{1}{2}$ of $12\,569 \div 1000$?

A 62.845

B 6284.5

C 6.2485

D 624.85

E 6.2845

Please turn over

- 29 A dice is thrown 36 times. These are the results.

1	2	6	4	6	5
5	3	3	5	4	3
6	1	3	2	3	6
3	4	6	3	6	5
1	5	4	1	4	2
2	6	3	5	3	6

Find the mode.

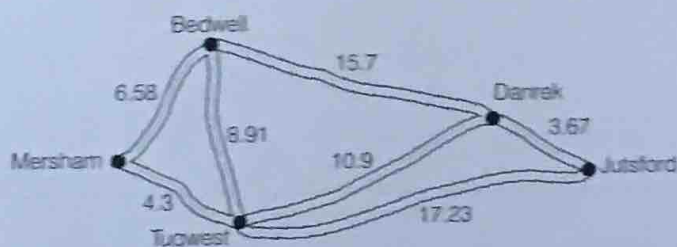
- A 2 B 3 C 4 D 5 E 6

- 30 Which group contains only prime numbers?

- A 1, 2, 5, 7 B 5, 7, 9, 11 C 2, 7, 11, 13 D 7, 11, 13, 15 E 11, 13, 16, 18

- 31–32 Look carefully at this map.

The figures show the distances in miles between the towns.



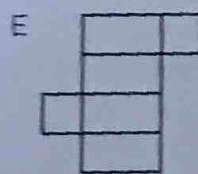
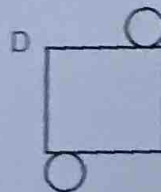
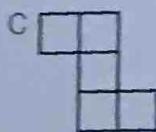
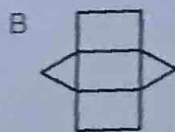
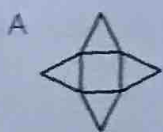
What is the shortest distance from Mersham to Jutsford?

- A 25.95 miles B 21.53 miles C 18.87 miles D 18.37 miles E 19.81 miles

How much longer is the distance between Tugwest and Jutsford than Tugwest and Bedwell?

- A 8.31 miles B 8.32 miles C 8.33 miles D 9.31 miles E 9.32 miles

- 33 Which of these nets can be folded to make a pyramid?



- 34 A cat knocked over a jug of milk. 200 millilitres of milk were spilt. How many litres were spilt?

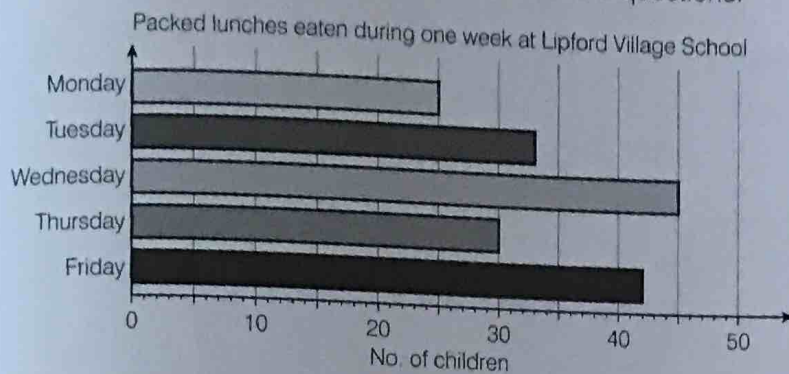
- A 2 litres B 20 litres C 0.2 litres D 0.02 litres E 0.002 litres

- 35 Tariq thinks of a number. He divides it by 4, adds 17 and then multiplies it by 2. The result is 50. What number did Tariq first think of?

- A 64 B 8 C 23 D 32 E 12.5

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36–38 Look carefully at this bar chart and then answer the questions.



What is the range of children bringing a packed lunch?

- A 3 B 15 C 20 D 12 E 5

90 children attend Liphook Primary School.

What fraction of children did not have a packed lunch on Thursday?

- A $\frac{1}{2}$ B $\frac{1}{3}$ C $\frac{1}{4}$ D $\frac{2}{3}$ E $\frac{3}{4}$

Find the average number of children having packed lunches on each day over the week.

- A 30 B 35 C 37 D 40 E 33

39 Find the product of $\frac{1}{3} \times \frac{1}{2}$.

- A $\frac{1}{5}$ B $\frac{1}{6}$ C $\frac{2}{3}$ D $\frac{5}{6}$ E $\frac{2}{6}$

40 What is the difference between the lowest and highest numbers in this list?

5 -3 7 -9 9 -2 -7

- A 18 B 16 C 11 D 14 E 12

41 4589 tins and packets of food were collected for a village that had been cut off by floods. A hundred families lived in the village. The food was distributed equally between the families.

How many whole tins and packets of food did each family receive?

- A 45.89 B 45.9 C 46 D 45.5 E 45

42 What number is missing?

$$\frac{3}{25} = \frac{12}{?}$$

- A 25 B 50 C 75 D 100 E 125

43 A sandwich shop (open 7 days a week) sold, on average, 127 sandwiches a day. How many sandwiches were sold in a four-week period?

- A 2667 B 4445 C 3566 D 4055 E 3556

- 44 Read the following statement.

'It is a four-sided shape. One pair of sides is parallel but one side is longer than the other.'

Which shape is being described?

- A parallelogram B trapezium C rectangle D dodecagon E pentagon

- 45-46 A teacher bought each of her 23 school leavers a small present, each costing £1.25.

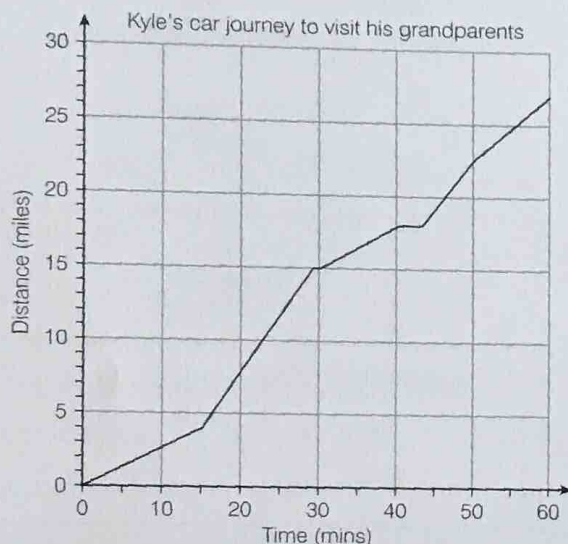
How much did she spend?

- A £26.75 B £26.25 C £29.25 D £29.50 E £28.75

What change did she receive from £45.00?

- A £16.25 B £18.75 C £15.75 D £15.50 E £17.25

- 47-49 Look carefully at the line graph and then answer the questions.



How far had Kyle travelled after 40 minutes?

- A > 25 miles B > 20 miles C < 10 miles D < 20 miles E > 30 miles

On how many occasions was Kyle's car stationary, other than at the beginning and end of the journey?

- A one B two C three D four E not at all

During which period of time did Kyle travel the furthest distance?

- A 0-10 minutes B 10-20 minutes C 20-30 minutes D 30-40 minutes E 40-50 minutes

- 50 During a 21 hour 49 minute flight to Australia, Steve slept $\frac{2}{7}$ of the total time. For how long did Steve manage to sleep?

- A 3 hours 7 minutes B 7 hours 7 minutes C 5 hours 15 minutes
D 6 hours 14 minutes E 7 hours 14 minutes