

Bond

No.1 for exam success

11+ Maths

Multiple-choice Test Papers

Pack 1

Test 1

Read the following carefully:

- Do not begin the test or open this 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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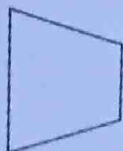
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1

D



E



F



G



H



Which quadrilateral does not have an obtuse angle?

2

Mrs Woodside is organising a school trip. Each child needs to pay $\pounds x$ for the transport. Each child also has to pay $\pounds y$ for the accommodation. If there are 45 children going on the trip how much will the total payment be?

A $45 + x + y$

B $45x + y$

C $x + 45y$

D $45(x + y)$

E $45xy$

3

If: $6x - 7 = 3x + 5$, what is x ?

A 9

B 4

C $\frac{2}{3}$

D $\frac{3}{4}$

E $\frac{4}{3}$

4

This graph is used to convert kilograms to pounds.

Using the graph, write approximately how many pounds is 200 kilograms.

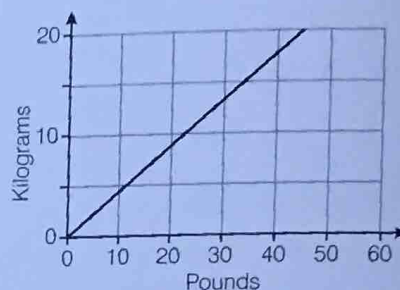
A 44 pounds

B 94 pounds

C 404 pounds

D 400 pounds

E 440 pounds



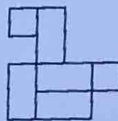
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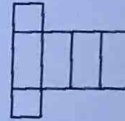
A



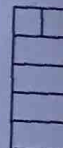
B



C



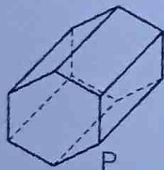
D



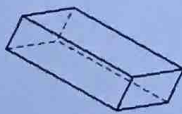
E

Only one of the above diagrams is the net of a closed cuboid. Which net can be folded to form the closed cuboid?

6



P



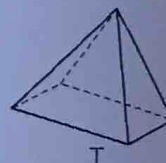
Q



R



S



T

Which of the above solids has an even number of vertices and an odd number of faces?

7

Jamie has a collection of antique comics. He has three worth $\pounds 4.75$ each, seven worth $\pounds 3.20$ each, and 12 worth $\pounds 2$ each. How much is his total collection worth?

A $\pounds 9.95$

B $\pounds 57.55$

C $\pounds 60.65$

D $\pounds 50.65$

E $\pounds 22$

8

Look at this number line. What number does the arrow point to?



A 7.62

B 8

C 7.625

D 7.1

E 7.7

Continue to the next page

- 9 Pencils are sold in packs of five. The Art Department wants to buy 790 pencils. How many packs will need to be bought?

A 160 B 159 C 158 D 157 E 790

- 10 $5^4 = ?$

A $4 \times 4 \times 4 \times 4 \times 4$ B $5 \times 5 \times 5 \times 5$ C 5×4 D 54 E 45

- 11 Calculators are on special offer at £3.99. The Maths Department buys 125 calculators. What is the total cost?

A £499.99 B £997.50 C £399 D £498.75 E £524.75

- 12 Azra collected the following data during a survey of her year group.

	Favourite racket sport		
	Badminton	Squash	Tennis
Boys	22	18	11
Girls	24	7	?

One hundred pupils completed the survey. How many girls gave tennis as their favourite sport?

A 18 B 11 C 19 D 100 E 0

- 13 3.344 670 What is this number to two decimal places?

A 3.35 B 3.3 C 3.34 D 3.344 670 E 3

- 14 A map of Belgium is drawn to a scale of 1:175 000. How many centimetres on the map would show 35 km?

A 35 cm B 20 cm C 17.5 cm D 2 cm E 3.5 cm

- 15 Which fraction has the smallest value?

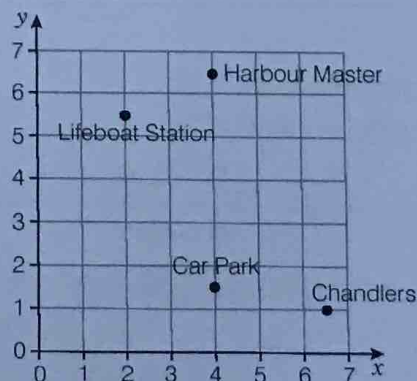
A $\frac{4}{7}$ B $\frac{7}{12}$ C $\frac{4}{6}$ D $\frac{9}{16}$ E $\frac{5}{8}$

- 16 Which letter shows two prime numbers that add to make a cube number?

A 2 and 3 B 3 and 5 C 5 and 8 D 13 and 14 E 31 and 33

- 17 What are the coordinates of the Harbour Master?

A (4, 6) B (4, 5.5)
C (4.5, 6.5) D (3.5, 6.5)
E (4, 6.5)



Please turn over

18

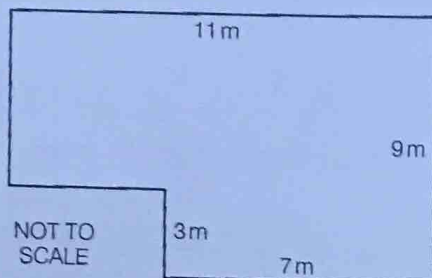
57	46	35
46	?	24
35	24	13

What is the missing number?

- A 35 B 18 C 24
D 0 E 57

19

Here is the plan of a room. How far is it all the way around the edge of the room?



- A 40m
B 36m
C 30m
D 99m
E 87m

20

Year 6 at Abbey Primary School is going on an outing. The school minibus can take a maximum of 11 pupils. How many trips are needed to take all 57 pupils?

- A 5 B $\frac{2}{11}$ C 11 D 6 E 57

21

These are the numbers of letters received by the school office each day for a week.

13 8 21 5 20

What is the median number of letters?

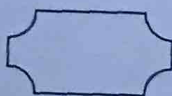
- A 21 B 13 C 67 D 12 E 20

22

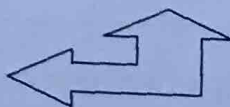
Which of these shapes has rotational symmetry?



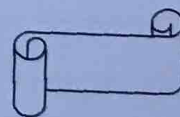
A



B



C



D

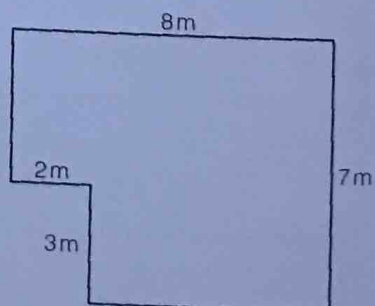


E

23

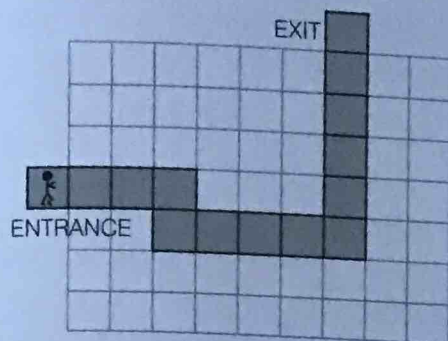
This is the plan of a room. What is the area of the room?

- A 56m^2 B 30m^2
C 51m^2 D 49m^2
E 50m^2



Continue to the next page

24



Your task is to guide the person along the grey squares on the plan.

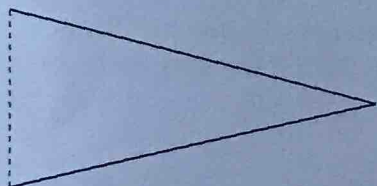
He starts on the square marked ENTRANCE and finishes on the square marked EXIT.

He can only move FORWARD, TURN RIGHT 90° and TURN LEFT 90° .

Which are the correct instructions?

- A FORWARD 3, TURN RIGHT 90° , FORWARD 1, TURN LEFT 90° , FORWARD 5, TURN LEFT 90° , FORWARD 5
- B FORWARD 2, TURN RIGHT 90° , FORWARD 1, TURN RIGHT 90° , FORWARD 4, TURN LEFT 90° , FORWARD 5
- C FORWARD 3, TURN RIGHT 90° , FORWARD 1, TURN LEFT 90° , FORWARD 4, TURN LEFT 90° , FORWARD 5
- D FORWARD 3, TURN RIGHT 90° , FORWARD 1, TURN RIGHT 90° , FORWARD 4, TURN LEFT 90° , FORWARD 5
- E FORWARD 2, TURN RIGHT 90° , FORWARD 1, TURN LEFT 90° , FORWARD 4, TURN LEFT 90° , FORWARD 5

25



If you reflect this isosceles triangle in its dashed side you will make a quadrilateral.

What is the name of this quadrilateral?

- A square B rectangle C rhombus D pentagon E kite

26 This machine triples and then adds 4.



Which number has been put in?

- A 69 B 430 C 36 D 46 E 142

27 Tina buys a new rucksack for school. She buys the largest one she can find. What is the size of her rucksack likely to be?

- A 0.35 litres B 3.5 litres C 35 litres
D 350 litres E 3500 litres

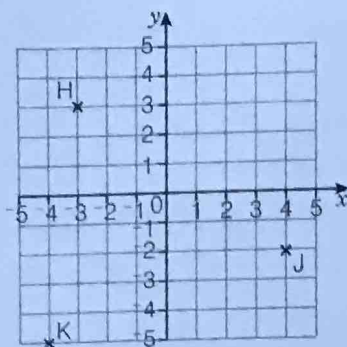


28 Rosa thinks of a number. She doubles it, then multiplies it by 4. She then divides this number by 8. The result is 3. What number did Rosa first think of?

- A 3 B 4 C 2 D 8 E 6

Please turn over

29



What are the coordinates of H, J and K?

- A H (3, -3) J (4, -2) K (4, 5)
 B H (-3, 3) J (-2, 4) K (-4, -5)
 C H (3, -3) J (-2, 4) K (-4, -5)
 D H (-3, -3) J (4, 2) K (-5, -4)
 E H (-3, 3) J (4, -2) K (-4, -5)

30

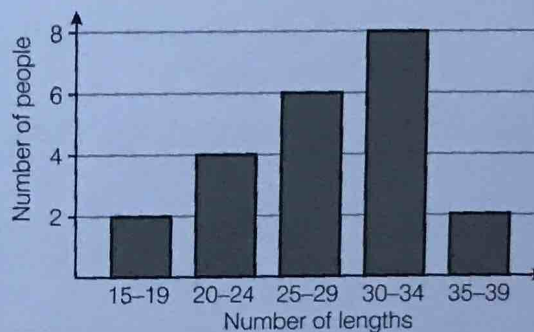
Ian and Kirsty win a sum of money in a lottery. They share the money in the ratio of 12:9. Kirsty gets more than Ian. If Ian gets £36, how much does Kirsty get?

- A £36 B £48 C £27 D £12 E £9

31

This bar chart shows the number of lengths swum in a sponsored swim. How many people swam 30 or more lengths?

- A 8 B 2 C 16
 D 10 E 20



32

In 2010 there were 43 members of the school chess club. In 2011 there were 11 new members. In 2012 there were 14 new members and seven members who left. In 2013 there were six new members and nine members who left. In 2014 there were two new members. How many members were there at the end of 2014?

- A 57 B 59 C 61 D 58 E 60

33 Here are the months of the year:

January	February	March	April	May	June
July	August	September	October	November	December

As a percentage, how many months of the year have an even number of letters in their names?

- A 25% B 50% C 75% D 100% E 45%

34

43608 What is this number in words?

- A four thousand six hundred and eight
 B four hundred and thirty-six thousand and eight
 C forty-three thousand six hundred and eight
 D four thousand three hundred and sixty-eight
 E forty-three thousand and sixty-eight

35

y is equal to $\frac{3}{4}$ of x . Which of the following is incorrect?

- A $4y = 3x$ B $\frac{y}{x} = \frac{3}{4}$ C $3y = 4x$ D $y = \frac{3}{4}x$ E $x = \frac{4}{3}y$

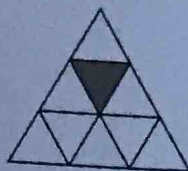
36

400 vehicles pass Tara's house in one hour. $\frac{4}{5}$ of them are cars. How many of them are cars?

- A 320 B 300 C 500 D 350 E $\frac{1}{5}$

Continue to the next page

- 37 The area of the shaded triangle is 500 mm^2 . What is the area of the largest triangle?



- A $45\,000 \text{ mm}^2$ B 4000 mm^2 C 4.5 cm^2 D 45 cm^2 E 450 cm^2

- 38 Rashid is 1 metre 10 centimetres tall. Which is the closest to his height in feet and inches?

- A 3 feet 4 inches B 3 feet 7 inches C 3 feet 10 inches
D 4 feet 1 inch E 4 feet 3 inches

- 39 1250 millilitres of a 1.500 litre bottle of cola is water. What fraction of the bottle is water?

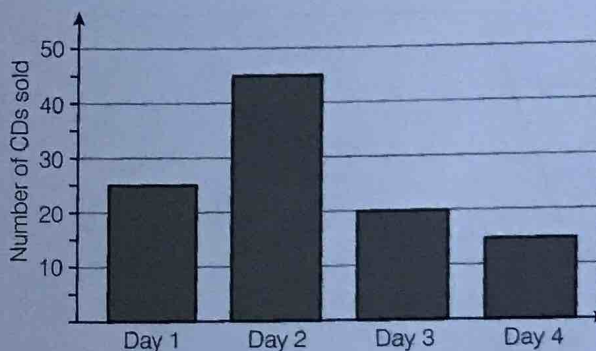
- A $\frac{2}{3}$ B $\frac{3}{4}$ C $\frac{4}{5}$ D $\frac{5}{6}$ E $\frac{6}{7}$

- 40 192 flights leave Newtown Airport each day. $\frac{5}{8}$ of them are international flights, the others are domestic flights. How many domestic flights leave Newtown Airport each day?

- A 192 B 72 C 58 D 120 E 100

- 41 This bar chart shows the number of CDs sold by a shop in four days. How many more CDs were sold on Day 2 than on Day 4?

- A 45 B 15 C 30
D 20 E 40



- 42 A newspaper showed the following temperatures on 1st February last year.

Amsterdam	2°C	Buenos Aires	21°C	Cairo	11°C	Cape Town	18°C
Delhi	19°C	Istanbul	4°C	Moscow	-11°C	Munich	-2°C
Nairobi	21°C	New York	-9°C	Tokyo	4°C	Vienna	3°C

Which place was the coldest on that day?

- A Nairobi B Munich C New York D Moscow E Amsterdam

- 43 A bag contains one red marble, two green marbles and three yellow marbles. You pick a marble at random from the bag. In which of these are both statements true?

- A You have a greater than even chance of picking a yellow marble.
You have a less than even chance of picking a green marble.
B You have an even chance of picking a yellow marble.
You have a greater than even chance of picking a red marble.
C You have a greater than even chance of picking a green marble.
You have an even chance of picking a yellow marble.
D You are certain to pick a marble.
You have a greater than even chance of picking a yellow marble.
E You have a less than even chance of picking a red marble.
You have a less than even chance of picking a green marble.

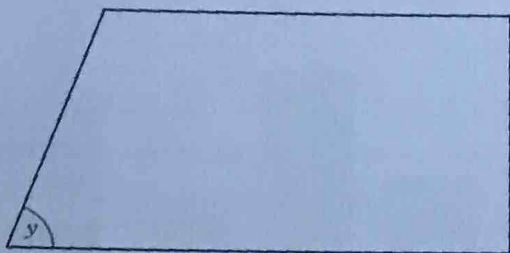
- 44** A bag contains some coloured pencils. There are:
 two black three red four blue five green six yellow
 What is the probability that I don't pick a red?
 A $\frac{17}{20}$ B $\frac{14}{17}$ C $\frac{3}{20}$ D $\frac{16}{19}$ E $\frac{6}{10}$

- 45** How is the time '9.45 in the evening' written in 24-hour clock notation?
 A 21:45 B 19:45 C 09:45 D 17:45 E 22:45

- 46** Andrew goes to the library to return his six books. They are all overdue by one week so he has to pay six fines. He gets 16p in change from £1. How much is the fine for one book?
 A 21p B 14p C £1 D £0.16 E 84p

- 47** The total attendance in one season for Nelson Football Club was 810 000. They played 27 games. What is the mean attendance for the season?
 A 27 000 B 37 000 C 81 000 D 30 000 E 40 000

48

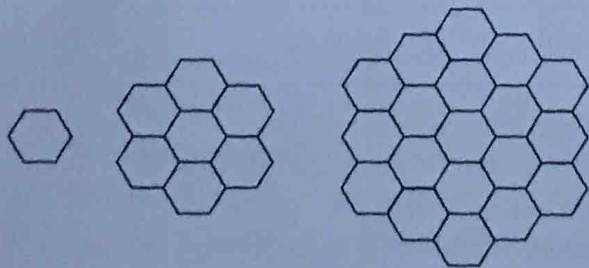


What is the approximate size of angle y marked on the trapezium above?

- A 30° B 45° C 70° D 90° E 110°

- 49** The area of a rectangle is 36 cm^2 . What could be the perimeter of the rectangle?
 A 6 cm B 9 cm C 12 cm D 18 cm E 26 cm

- 50** How many hexagons are needed to make the next shape in this sequence?



- A 18 B 27 C 30 D 37 E 47