

Bond

No.1 for exam success

11+ Maths

Multiple-choice Test Papers Pack 1 Test 3

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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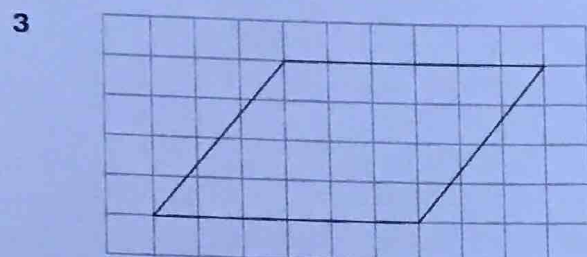
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- 1 If you halve Briony's mum's age and then add 4 the answer is 33. How old is Briony's mum?
- A 66 B 74 C 58 D 56 E 29

- 2 Last Saturday 90 families went into Horsforth Travel Shop. 24 families actually booked their holiday on that day. What proportion is this?
- A $\frac{1}{5}$ B $\frac{4}{15}$ C $\frac{1}{3}$ D $\frac{2}{9}$ E $\frac{1}{4}$



In this diagram, one small square represents 1 cm^2 . What is the area of this shape?

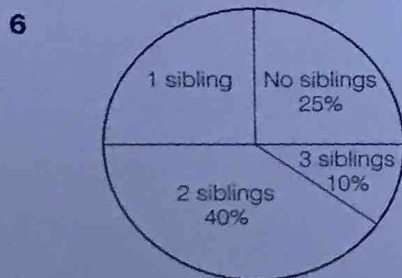
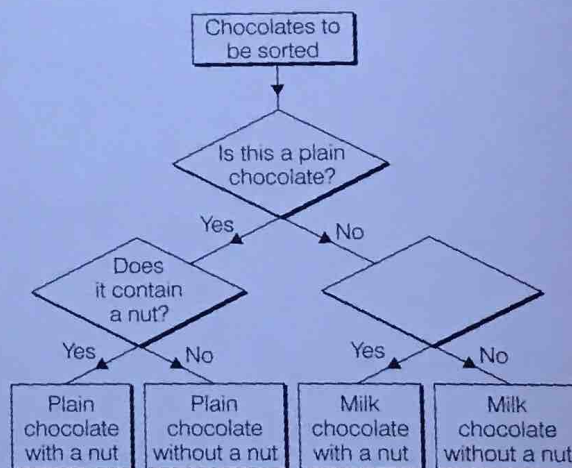
- A 20 cm^2
B 22 cm^2
C 24 cm^2
D 30 cm^2
E 32 cm^2

- 4 Which ratio is equivalent to the ratio $24:32$?

- A $12:30$ B $1:24$ C $6:9$ D $2:3$ E $3:4$

- 5 Joel used a decision tree to sort a tray of assorted chocolates. Each chocolate was either plain or milk chocolate coated. Some contained a nut, others did not. What is missing from the empty shape?

- A Is it a milk chocolate?
B Does it contain a nut?
C Does it not contain a nut?
D Contains a nut
E Contains no nut



The pie chart for Class 6C shows proportions of pupils with a certain number of brothers and sisters. There are 32 pupils in Class 6C. How many pupils have one brother or sister?

- A 25 B 24 C 10
D 8 E 6

7

	14		→ 47
13		18	→ 47
19		?	→ 47
↓ 47	↓ 47	↓ 47	

When every space in the grid is filled in, each row and each column adds up to 47. Which number should be in the square with the question mark?

- A 11 B 12 C 9 D 10 E 19

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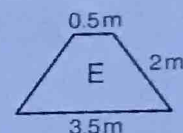
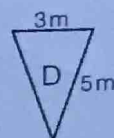
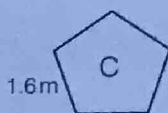
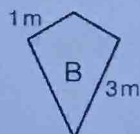
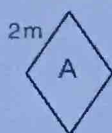
- 8 This table shows the hours of sunshine last summer.

Month	May	June	July	August	September
Hours	173	185	190	198	187

What is the range?

- A 26 B 198 C 185 D 5 E 25

9

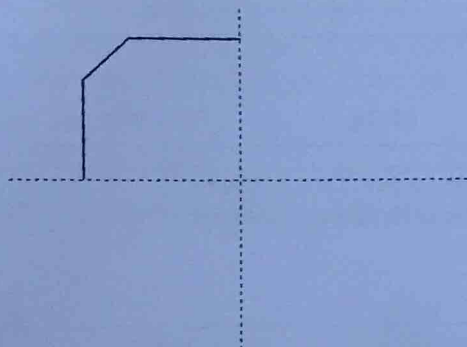


Four shapes have the same perimeter. Which shape has a different perimeter from the others?

- 10 Which answer is neither a square number nor a cube number?

- A 25 B 27 C 45 D 49 E 64

11



The diagram shows part of a shape and two lines of symmetry. What is the name of the complete shape?

- A irregular quadrilateral
B irregular hexagon
C irregular octagon
D irregular decagon
E irregular dodecagon

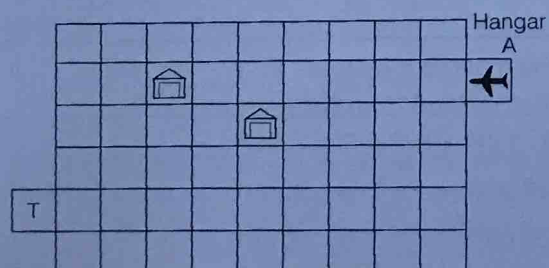
- 12 In a nursery there are 13 boys and 16 girls. What fraction of the nursery is made up of boys?

- A $\frac{1}{3}$ B $\frac{3}{6}$ C $\frac{13}{29}$ D $\frac{16}{29}$ E $\frac{4}{7}$

- 13 For which of these statements can you say that there is no chance of the event happening?

- A It will snow next Christmas. B I will grow taller than my mother.
C It will get dark tomorrow night. D It will rain next month.
E I can pick a prime between 20 and 22.

14



Your task is to guide the aeroplane from Hangar A to the terminal at T. It can only move FORWARD, TURN RIGHT 90° and TURN LEFT 90°. Which instructions will guide the plane to the terminal avoiding the other hangars?

- A FORWARD 6, TURN RIGHT 90°, FORWARD 2, TURN LEFT 90°, FORWARD 4
B FORWARD 5, TURN LEFT 90°, FORWARD 3, TURN RIGHT 90°, FORWARD 5
C FORWARD 6, TURN LEFT 90°, FORWARD 3, TURN RIGHT 90°, FORWARD 4
D FORWARD 1, TURN RIGHT 90°, FORWARD 3, TURN RIGHT 90°, FORWARD 9
E FORWARD 3, TURN LEFT 90°, FORWARD 2, TURN RIGHT 90°, FORWARD 4

Please turn over

- 15 What fraction of 3 hours is 15 minutes?

A $\frac{3}{15}$

B $\frac{1}{4}$

C $\frac{1}{5}$

D $\frac{1}{12}$

E $\frac{1}{45}$

- 16 Li has swimming lessons three times a week for a 14-week period. Each lesson costs £3.20. What is the total cost of all the lessons?

A £132.40

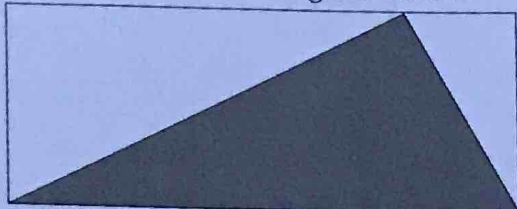
B 134.40

C £9.60

D £124.40

E £44.80

- 17 The area of the rectangle is 13 cm^2 .



What is the area of the triangle?

A 6.5 cm^2

B 26 cm^2

C 19.5 cm^2

D 7.5 cm^2

E 5.5 cm^2

- 18 Mira has drawn a plan of her school playing field. She uses a scale of 1 cm to 6 m. On the plan the long jump pit is 3 cm. What is the real length of the long jump pit?

A 12 m

B 7 m

C 36 m

D 9 m

E 18 m

- 19 Which word has a horizontal line of symmetry?

COX

NON

DAD

MUM

HIT

- 20 Jack does not like plain crisps. He surveys his 36 classmates to see if they agree. He asks: "Do you like plain crisps? Answer Yes or No." Three-quarters of them said "Yes". How many of his classmates said "No"?

A 24

B 8

C 11

D 22

E 9

- 21 Samir has a pocket full of change. He decides to count it up to see how much he has. He has a two pound coin, three fifty pence pieces, seven five pence pieces and six one pence pieces. How much money does he have?

A £3.81

B £3.85

C £2.91

D £3.91

E £4.06

- 22 Katrin's local card shop has 63 different types of birthday card. $\frac{3}{7}$ of them are for a boy's birthday. From how many cards can she choose for her friend Matthew?

A 28

B 27

C 30

D 21

E 36

- 23 Which number which is exactly divisible by both 7 and 21.

A 17

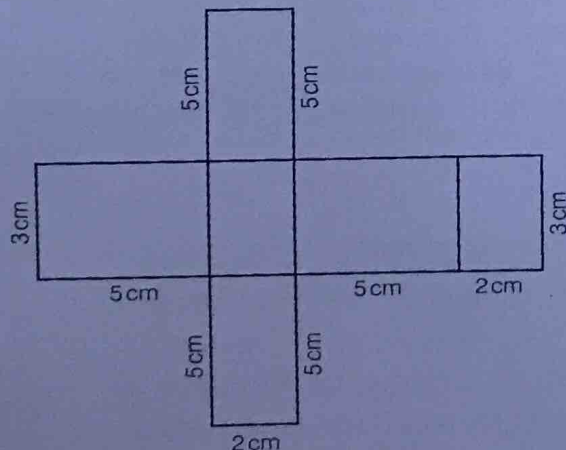
B 27

C 28

D 41

E 21

- 24



This is a net of a cuboid.
It is then folded to make a box.
What is the volume of the box?

A 30 cm^3

B 20 cm^3

C 40 cm^3

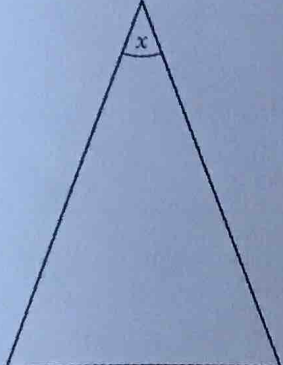
D 35 cm^3

E 50 cm^3

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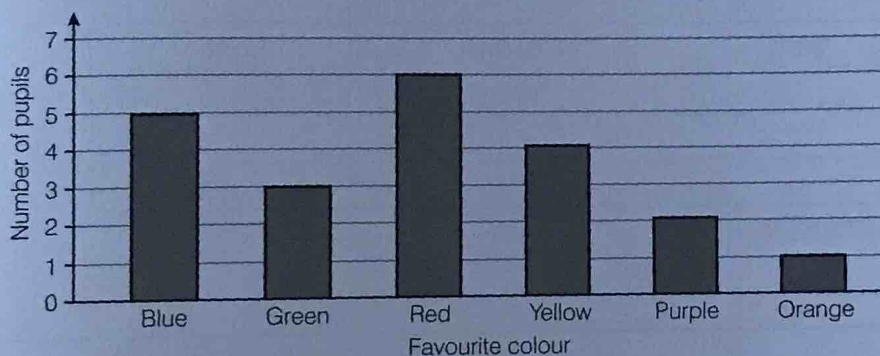
- 25 Edward the elephant will be x years old in five years' time. How old was he four years ago?
 A $x - 4$ B $x + 9$ C $x - 9$ D $x - 1$ E $x + 1$

- 26 Circle the answer which has the largest value.
 A $\frac{3}{10}$ of 360 B 110 C 0.3 of 360 D $\frac{1}{3}$ of 360 E 30% of 360

- 27  What is the approximate size of angle x marked on this isosceles triangle?
 A 10°
 B 40°
 C 70°
 D 90°
 E 140°

- 28 A printing machine is set to print 700 copies of a book. Each book consists of 56 sheets of A3 paper. How many sheets of paper does the machine need to print all the books?
 A 39 200 B 70 000 C 49 200 D 33 600 E 36 200

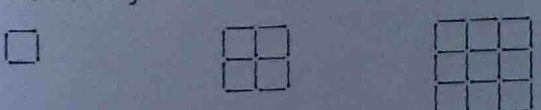
- 29 This graph shows the favourite colours of Class 7AB.



What is the modal colour?

- A Blue B Green C Red D Purple E Orange
- 30 Declan buys some stationery for £18.23. Because he is spending over £15 he gets a discount of £1.55. How much does he have to pay after his discount is taken into consideration?
 A £19.78 B £16.78 C £18.68 D £18.76 E £16.68

- 31 Kim's dad measures the length of his drive by counting strides. He counts 22 strides. There are four cars parked end-to-end up the drive. Kim writes down five different possible answers for the length of the drive. Which is correct?
 A 4m B 2000mm C 14m D 200m E 240cm

- 32 How many matchsticks are needed to make the next shape in this sequence?
 A 16 B 32 C 38
 D 40 E 42

Please turn over

- 33 This machine multiplies by 5 and then divides by 3. Which number comes out?



- A 35 B 12.6 C 102
D 45 E 33

- 34 Thirty-one thousand five hundred and nine. Which answer shows this written as a number?

- A 31 059 B 3159 C 3150.9 D 31 509 E 31 500.9

- 35 $f + 2g = 4h$ Which of the following is incorrect?

- A $3f + 6g = 12h$ B $f + 2g - 4h = 0$ C $f = 4h - 2g$
D $0 = f + 2g - 4h$ E $2g = 4h + f$

- 36 There are 72 shops on the Eastward Town high street. $\frac{4}{9}$ of the shops on the high street sell some kind of food or drink. How many shops do not sell any kind of food or drink?

- A 32 B 40 C 12 D 31 E 21

- 37 How many of the following shapes have at least two pairs of parallel sides?

- Kite Trapezium Regular pentagon Regular hexagon Regular octagon
A 1 B 2 C 3 D 4 E 5

- 38 Look at this table showing the performance of the school Lacrosse team.

Year	Won	Drawn	Lost
2012	8	9	4
2013	12	6	3
2014	5	5	5

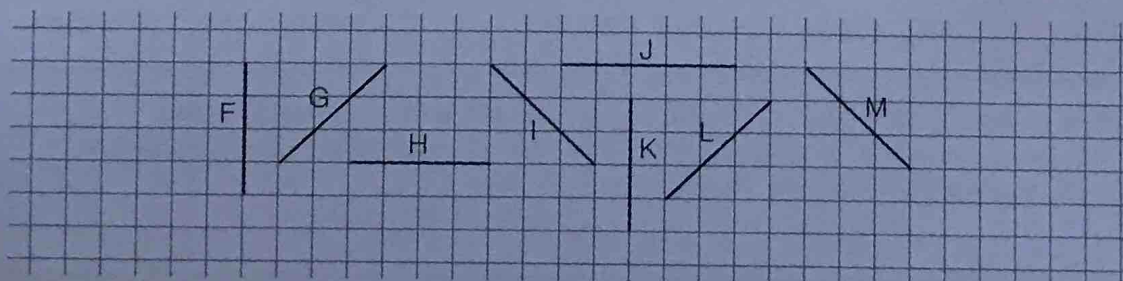
How many matches in total did the team not lose?

- A 45 B 12 C 25 D 20 E 44

- 39 Karen and Pippa are both 150 cm tall and 12 years old. During the next four years Karen grows k centimetres per year and Pippa grows p centimetres per year. Pippa is taller. When they are 16 years old how much taller is Pippa than Karen?

- A $16(p - k)$ B $4(p - k) + 150$ C $p - k$ D $4(p - k)$ E $4(k - p)$

40

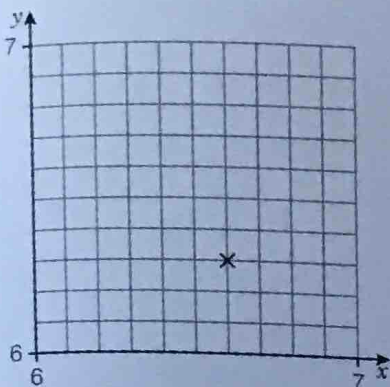


Which of these statements is correct?

- A Line F is parallel to line J. B Line G is perpendicular to line M.
C Line H is a vertical line. D Line I is parallel to line L.
E Line K is a horizontal line.

Continue to the next page

41



What are the coordinates of the cross.

- A (6.3, 6.6)
- B (6.6, 6.2)
- C (6.7, 6.4)
- D (6.7, 6.7)
- E (6.6, 6.3)

42

Here is part of a conversion table for feet to metres and metres to feet.

Example: 5 feet = 1.53 m.

Which figure is missing from the table?

	feet to m	m to feet
5	1.53 m	?
6	1.83 m	19.68 ft
7	2.13 m	22.97 ft
8	2.44 m	26.25 ft

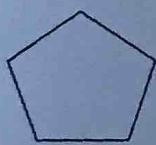
- A 18.23 ft B 19.01 ft C 17.76 ft D 15.33 ft E 16.40 ft

43 6.996 143

What is this number to two decimal places?

- A 7.00 B 6.9 C 6.99 D 6.9961 E 6.996

44



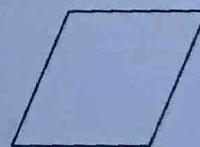
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S



T



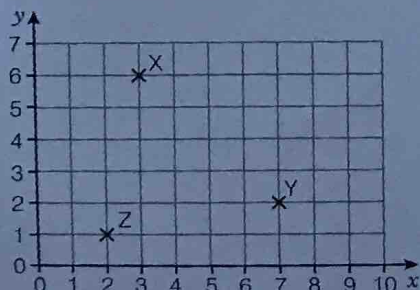
U



V

Which polygon has an interior reflex angle?

45 What are the coordinates of X, Y and Z?



- | | | |
|------------|----------|----------|
| A X (3, 6) | Y (2, 7) | Z (1, 2) |
| B X (8, 3) | Y (7, 2) | Z (1, 2) |
| C X (3, 7) | Y (7, 3) | Z (2, 2) |
| D X (3, 6) | Y (7, 2) | Z (1, 2) |
| E X (3, 6) | Y (7, 2) | Z (2, 1) |















46

Years 4 and 5 at Panto Primary School are performing a summer show. Year 4 has 62 children and Year 5 has 65 children. 73 children are acting. 48 children are working backstage. The rest are doing the front of house. How many are doing the front of house?

- A 6 B 11 C 8 D 9 E 5

Please turn over

- 47 Thorne School did a survey on favourite crisp flavours.

Favourite flavour of crisps	
Plain	  
Salt and Vinegar	  
Cheese and Onion	 
Bacon	 
Prawn Cocktail	   

Key:  stands for 8 children
 stands for 4 children

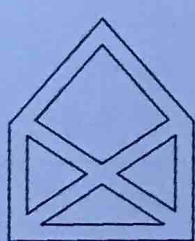
How many pupils liked Prawn Cocktail best?

- A 16 B 20 C 24 D 28 E 32

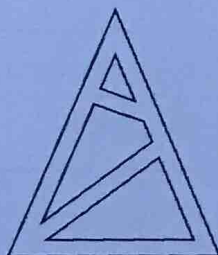
- 48 There are 35 pupils in a class. $\frac{1}{7}$ travel to school by bus. $\frac{2}{7}$ travel to school by car. The rest walk to school. How many pupils walk to school?

- A 20 B 10 C 15 D 5 E 21

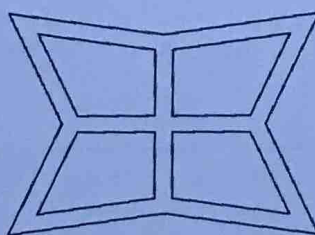
- 49 A milkwoman delivers milk to a housing estate. She does not want to visit the same street more than once, but can pass over the same street corners. On which housing estate is this possible?



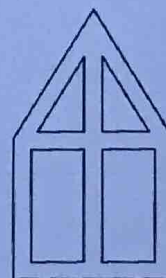
A



B



C



D



E

- 50 Peter and Lauren were helping their grandad by carrying his shopping home for him. Lauren was carrying a 440 g bag of potatoes and two bags of fruit each weighing 150 g. The total weight of Peter's bags was exactly half the total weight of Lauren's bags. How much weight did Peter carry?

- A 590 g B 370 g C 315 g D 360 g E 470 g