

11+ MATHEMATICS

Multiple-choice SAMPLE TEST 1

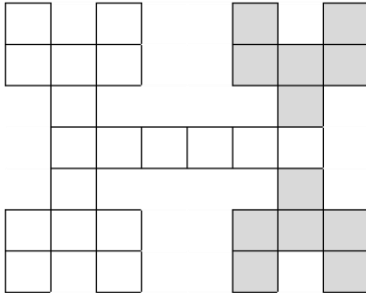
Read the following carefully.

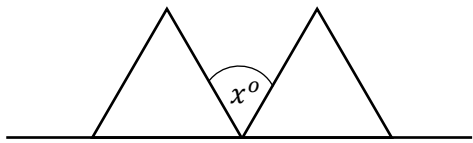
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- Do not open the booklet until you are instructed to do so.
 - This is a multiple-choice test.
 - Answers should be marked in pencil with a firm line, on the answer sheet, **not** on the test booklet.
 - If you make a mistake, rub it out and write down your new answer.
 - You should only have one answer per question.
 - Choose the answer you think fits best.
 - Do not leave any boxes empty.
 - You will have 25 minutes to do the test.
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1	<p>What number completes this equation?</p> $13 + 8 \times (4 - 1) = ?$
2	<p>Here is a shape made of squares.</p>  <p>What percentage of the entire shape is shaded?</p>
3	<p>Silver Birch School has 7 equal-sized classrooms.</p> <p>Inside each classroom there are 14 desks.</p> <p>2 children can sit at each desk.</p> <p>What is the maximum number of pupils in Silver Birch School?</p>
4	<p>____, ____, 4, 9, 14, 19</p> <p>What is the first number in this sequence?</p>
5	<p>A company makes 4,298,341 chocolate bars each week.</p> <p>There are 6 chocolate bars in a pack.</p> <p>How many packs can they fill in one week?</p>
6	<p>Otis goes to a theme park.</p> <p>He spends £7 on the entrance fee and his lunch.</p> <p>He spends 50p more on the entrance fee than his lunch.</p> <p>How much is the entrance fee for Otis?</p>

7	<p>A garden water tank contains 12L of rain water. Henry fills five 750ml watering cans using the tank. How much water is left in the tank?</p>								
8	<p>What number completes the second equation? $328 \times 48 = 15744$ $328 \times ? = 7872$</p>								
9	<p>A loaf of bread weighs 400g. Another loaf is 15% heavier. What is the weight of the heavier loaf?</p>								
10	<p>The shape below is made from two equilateral triangles on a straight line.</p>  <p>What is the value of x?</p>								
11	<p>A cyclist plans to cycle 40km around a lake. How far is this in miles? (1mile = 1.6km)</p>								
12	<p>Here are the weights of four puppies.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Alfie</td> <td style="text-align: center;">1.05kg</td> </tr> <tr> <td style="text-align: center;">Bark</td> <td style="text-align: center;">2200g</td> </tr> <tr> <td style="text-align: center;">Coco</td> <td style="text-align: center;">1.55kg</td> </tr> <tr> <td style="text-align: center;">Digger</td> <td style="text-align: center;">1600g</td> </tr> </table> <p>What is the mean weight of these puppies?</p>	Alfie	1.05kg	Bark	2200g	Coco	1.55kg	Digger	1600g
Alfie	1.05kg								
Bark	2200g								
Coco	1.55kg								
Digger	1600g								
13	<p>Which of the following is largest? A. $\frac{2}{5}$ B. 25% C. $\frac{3}{8}$ D. 35% E. $\frac{3}{10}$</p>								


14

Which of the following shapes has the most lines of symmetry?


A




B




C



D



E



15

Here are the distances, in kilometres, of various bus routes around a city.

Route A	44 km
Route B	9 km
Route C	67 km
Route D	25 km
Route E	13 km

What is the difference between the longest and shortest routes around this city?

16

	<i>c</i>	
<i>a</i>	<i>D</i>	<i>b</i>

	3	
6	12	6

	9	
9	9	9

RULE: $\frac{a \times b}{c} = D$

What number completes the grid below?

	2	
3	12	?

17

The pie chart shows how many of three different types of flower there are in Clare's garden.

There are the same number of sunflowers as roses.
There are 540 flowers altogether.
How many tulips are there?

18

Jasmine is thinking of a number.
She doubles it, adds 7, then squares her answer.
The result is 121.
What number did Jasmine start with?

19

The bar chart shows the favourite sport of each child in year 6.

Which of the following is **incorrect**?

- a.) The modal sport was football.
- b.) 8 more children chose tennis than rugby.
- c.) Twice as many children chose football than tennis.
- d.) 12% of children chose netball.
- e.) 40% of children chose football.

20

Andy has a rope which is 4.1m long.
 He wants to cut as many 30cm pieces as possible.
 How much rope will be left over at the end?

21

Ruby plots the coordinates (2,1) (6,1) (6,8) and (2,8).
 She joins them up to form a rectangle.
 Which coordinates on the answer sheet lie inside this rectangle?

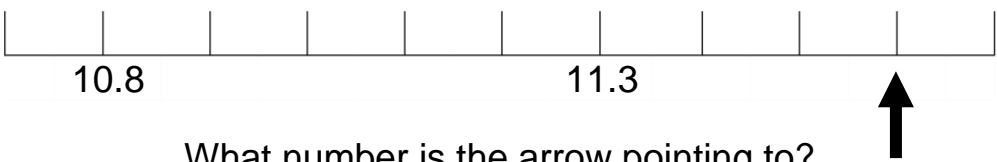
22

This frequency table shows the number of unripe oranges in different bags.

Number of unripe oranges in bag	Number of bags
0	4
1	2
2	2

How many unripe oranges are there in total?

23

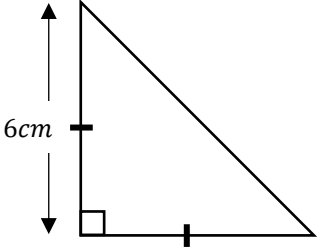


What number is the arrow pointing to?

24

What is the median of these numbers?
 1 3 -2 8 0 8 2 4 1

25



What is the area of the triangle?

END OF SAMPLE TEST 1

Maths Sample Test 1 - Answer Sheet

Pupil Name:

Mark your answers with a line [—]

TOTAL:			
25	=		%

Q1	
A	63
B	83
C	37
D	24
E	47

Q2	
A	12%
B	40%
C	35%
D	24%
E	25%

Q3	
A	98
B	196
C	24
D	124
E	100

Q4	
A	-1
B	-4
C	-5
D	-9
E	-6

Q5	
A	716390
B	716000
C	716391
D	7163901
E	716388

Q6	
A	£3.25
B	£3.50
C	£3.75
D	£3.00
E	£4.00

Q7	
A	8.00L
B	3.75L
C	7.50L
D	8.25L
E	37.5L

Q8	
A	48
B	24
C	96
D	40
E	36

Q9	
A	415g
B	460g
C	430g
D	385g
E	550g

Q10	
A	60°
B	45°
C	35°
D	75°
E	80°

Q11	
A	64 miles
B	46 miles
C	24 miles
D	35 miles
E	25 miles

Q12	
A	1.4kg
B	6.4kg
C	1.5kg
D	3.2kg
E	1.6kg

Q13	
A	A
B	B
C	C
D	D
E	E

Q14	
A	A
B	B
C	C
D	D
E	E

Q15	
A	58km
B	35km
C	67km
D	9km
E	25km

Q16	
A	2
B	4
C	6
D	8
E	10

Q17	
A	270
B	180
C	90
D	150
E	60

Q18	
A	11
B	2
C	36
D	18
E	9

Q19	
A	A
B	B
C	C
D	D
E	E

Q20	
A	10cm
B	20cm
C	15cm
D	25cm
E	14cm

Q21	
A	(1,1)
B	(1,8)
C	(3,9)
D	(5,0)
E	(3,5)

Q22	
A	4
B	8
C	3
D	6
E	5

Q23	
A	11.33
B	14.3
C	11.6
D	11.8
E	11.45

Q24	
A	2
B	8
C	1
D	0
E	3

Q25	
A	36cm ²
B	18cm ²
C	12cm ²
D	24cm ²
E	3cm ²

Sample Test 1 Answers

1.	C
2.	B
3.	B
4.	E
5.	A
6.	C
7.	D
8.	B
9.	B
10.	A
11.	E
12.	E
13.	A
14.	D
15.	A
16.	D
17.	C
18.	B
19.	D
20.	B
21.	E
22.	D
23.	C
24.	A
25.	B