

11+ Mathematics - Sample Paper.

You have 35 minutes to complete this paper.

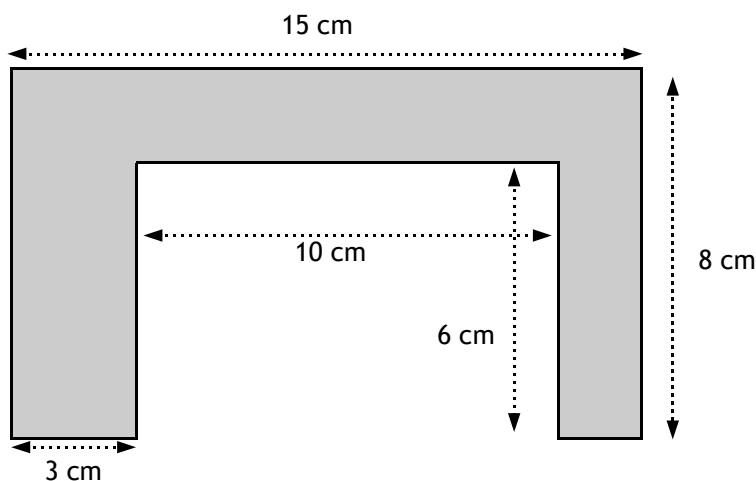
Q 1.

Lucy goes to a Holiday Club every weekday for five weeks during the holidays.
She pays £0.60 each time she goes.

How much does she pay in total during the holiday?

£ _____

Q 2.



What is the area of this shape? _____ cm²

Q 3.

Yvonne spends x pounds each day on her lunch at school.
She spends y pounds each week on a bus pass to get her to and from school
How much does Yvonne spend altogether in 6 weeks? Place a cross in the appropriate box.

- | | | |
|----|-------------|--------------------------|
| A. | $30y + 30x$ | <input type="checkbox"/> |
| B. | $6x + 6y$ | <input type="checkbox"/> |
| C. | $30y + 6x$ | <input type="checkbox"/> |
| D. | $6y + 42x$ | <input type="checkbox"/> |
| E. | $30x + 6y$ | <input type="checkbox"/> |

Q 4.

Mrs Whiting bought 144 “lucky bags” for the Brownies Christmas party.
They come packed in boxes of 16.

How many boxes of “lucky bags” did Mrs Whiting buy?

Q 5.

9	M	
	10	
13		

This is a magic square.

All the columns, rows and diagonals add up to 30.

Several numbers have been missed out.

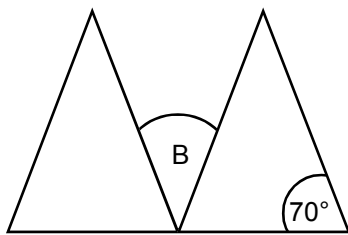
What number should replace the letter M ?

- Q 6. In a local sweet shop there 360 boxes of Belgian Chocolates.
48 are given away as prizes in a special Valentine's prize drawer.
192 are sold to the public at £4.60 a box.

How many boxes remain unsold? _____

- Q 7. Alexander's grandma is 5 times as old as Alexander was 3 years ago.
If Alexander's grandma is 60, how old is Alexander? _____

- Q 8. This shape has been created using two identical isosceles triangles.

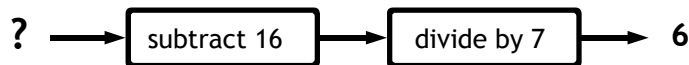


What is the angle at point B? _____ °

- Q 9. Mr and Mrs Fitzgerald take their 3 children to a special pop concert. Tickets cost £7.00 each for adults. The price of a child's ticket is half that of an adult's.

How much does it cost the family to visit the theme park? £ _____

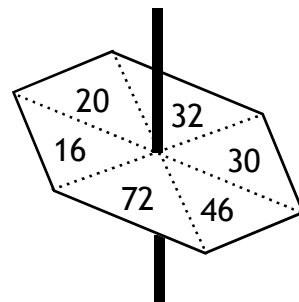
- Q 10. This is Sandra's function machine.



What number did she start with? _____

- Q 11. This spinner has an equal chance of landing on any of the numbers.

What is the chance that it will come to rest on a number that is a multiple of 6?



Write your answer as a fraction in its lowest possible terms. _____

Q 12.

Find the missing number so that the equation balances.

$$8 \times 9 - 16 = 7 \times 5 + \underline{\hspace{2cm}}$$

Q 13.

Colin has six 50 pence pieces, two 20 pence pieces, two ten pence pieces and five 5 pence pieces in her pocket.

How much money does he have in total?

£

Q 14.

Which one of the following numbers is a factor of 2, 5 and 6?

Circle the appropriate answers.

20 35 40 55 60

Q 15.

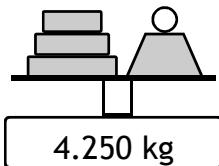
A box contains 2 blue pencils, 3 green pencils and 4 red pencils.

If I pick a pencil from the box at random (with my eyes shut), what is the probability that I will pick out a green one?

Circle the appropriate answer.

A. $\frac{2}{7}$ B. $\frac{1}{3}$ C. $\frac{1}{5}$ D. $\frac{1}{4}$ E. $\frac{2}{5}$

Q 16.



Roger places some weights on an electronic scale. He needs to make a total of 5.5 kg.

Which two of the weights below should he choose to make up the weight to the correct amount?Circle the two appropriate letters.

625g

A

750g

B

650g

C

400g

D

500g

E

Q 17.

This half term Martin has taken 7 tables tests. Here are his results out of 10:

8 5 9 4 6 4 8

What was his median score?

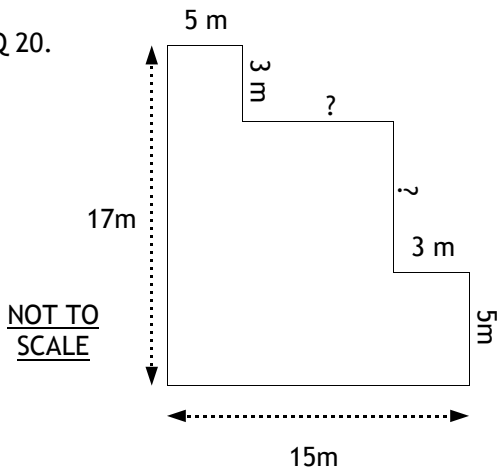
Q 18.

Calculate the following:

$$15000 \div 100 = \underline{\hspace{2cm}}$$

- Q 19. What fraction of a hour is 12 minutes?
Write your answer in its lowest possible terms. _____

- Q 20. This is a floor plan of Mr Buchanan's classroom.

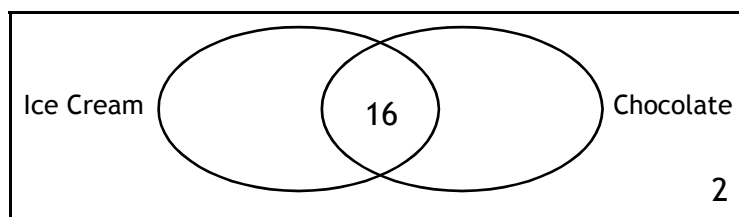


What is the total perimeter of the floor? _____ m

- Q 21. The ratio of flour to sugar in a cake is 7 : 4.
If 200g of sugar was used to make the cake, how much flour was used?

_____ g

- Q 22–23. Look at the Venn diagram below. It shows how many children in Mrs Thompson's class like chocolate, ice cream or both. 2 children like neither. There are 32 children in the class.



If 26 children like chocolate and 20 like ice cream:

- Q 22. How many children in the class do not like chocolate? _____

- Q 23. How many children only like one flavour? _____

- Q 24. Smoked Salmon crisps cost 47p per packet.
Sophie bought 5 packets for herself and her friends.

How much change would Sophie get from a £5 note? £ _____

Q 25. There are 12 sticks of “Minty Fresh” chewing gum in a pack.

How many packs could you make from 216 sticks of gum? _____ packs

Q 26. The local book shop has a sale.
Every item in the shop is reduced by 25%.
Melanie buys a set of encyclopaedias.
The set normally costs £30.00.

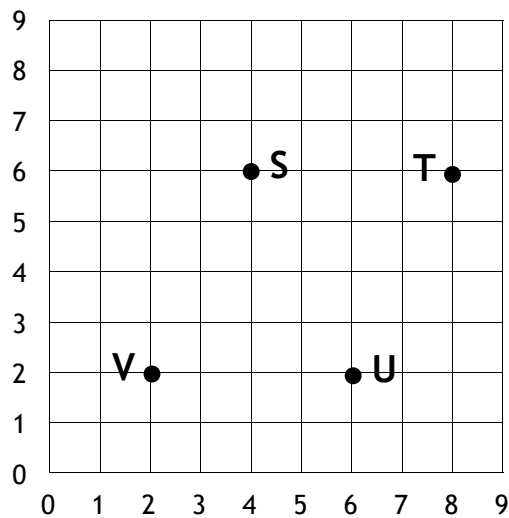
How much does Melanie have to pay for the books in the sale? £ _____

Q 27. In the same book shop Melanie’s little brother, Robert,
bought a picture book for £1.50.

What was the price of the picture book BEFORE the sale started? £ _____

Q 28. How many faces has a octagonal prism?

Q 29 - 30.



Q 29. What are the co-ordinates of the points at letter U and letter S?

U _____ , _____

S _____ , _____

Q 30. If you joined the points in alphabetical order, then back to S,
what shape would you have drawn? _____

You are at the end of the test. If you have time, go back and check your work.

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