

Paper A. 2015

Maths Paper

11+

Name

Candidate Number

Seat Number.....

Please put your name in the space provided above.

This maths paper contains 30 questions, which you have 40 minutes to complete.

The paper is out of 44 marks in total.

Write your answers clearly on the paper and make sure any mistakes are erased.

You can jot any working out on this test or extra rough paper.

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Q1. Write 4 million, one hundred and seven as a number.

Answer =

Q2. What is $12.7 + 8.4$?

Answer =

Q3. What is $8742 - 953$?

Answer =

Q4. What is 78×37 ?

Answer =

Q5. Calculate 11011 divided by 11.

Answer =

Q6. What is half of a quarter of 64 ?

Answer =

Q7. What is $\frac{2}{3}$ of 288 ?

Answer =

Q8. The following numbers are the amount of money that was in Mr Sid's bank account at the end of each month during 2014.

£24, £30, £100, -£50, £200, £30, £0, £10, £40, £26, £14, £20.

a) What is the mode?

Answer =

b) What is the range?

Answer =

Q9. I think of a number. I double it, and then add 7. The answer is 49.
What number did I start with ?

Answer =

Q10. What is the product of the sum of 7 and 2, and the difference between 8 and 5 ?

Answer =

Q11. What is the angle between the two hands of a clock at 3 o'clock?

Answer = °

Q12. In maths, we say that the square root of 16 is 4, because $4 \times 4 = 16$

What is the square root of 144 ?

Answer =

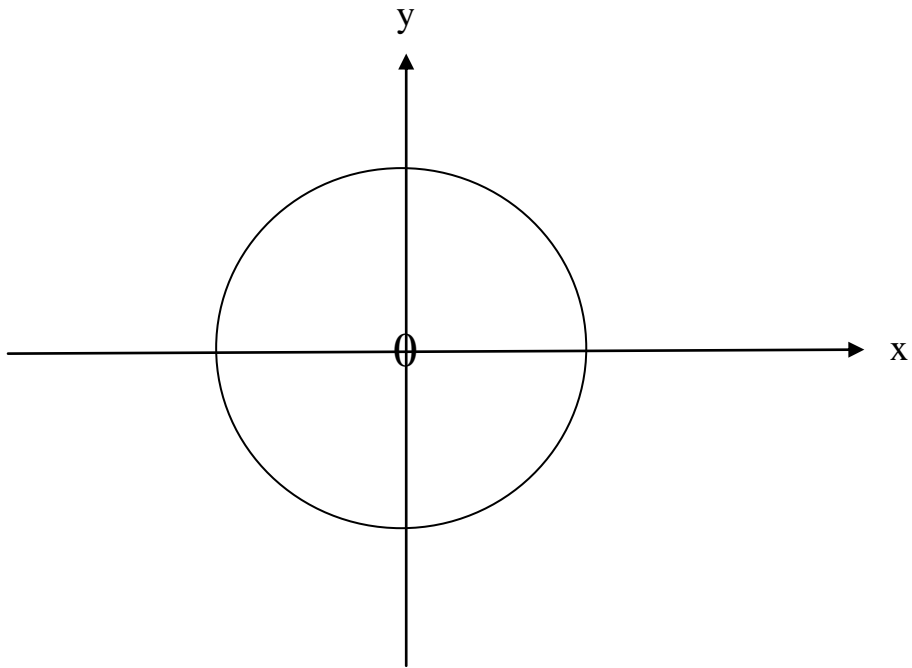
Q13. Find the number half way between -1 and 15.

Answer =

Q14. The train takes 3 hours and 50 minutes to travel between Bowland and Capland. Alice starts the journey at 10.05 a.m. The train is able to travel faster than expected and arrives at Capland a quarter of an hour early. What time does Alice reach her destination?

Answer =

Q15.



The circle above has a radius of 5 cm and its centre is at 0, where the x-axis and y-axis cross.

The x and y co-ordinates are measured in cm, but the drawing is not to scale.

Put a tick or a cross by the following co-ordinates.

If you think the co-ordinate given is inside the circle, put a tick in the box.

If you think the co-ordinate given is outside the circle, put a cross in the box.

- a) (2,2) b) (5,-5) c) (-4,-6)

Q16. Two whole numbers are between 11 and 29.

They multiply to make 390. What are the numbers?

Answer =

Q17. Round the following numbers to the nearest 100:

a) 356.79

b) 14689

c) 1230

Q18. Anne is 10, Brian is 12 and Tom is 14.

Mary joins them, and the average age of the group goes up by two years. How old is Mary?

Answer =

Q19. If Tom writes down all the numbers from 1 to 50, how many times will he have written down a '4'?

Answer =

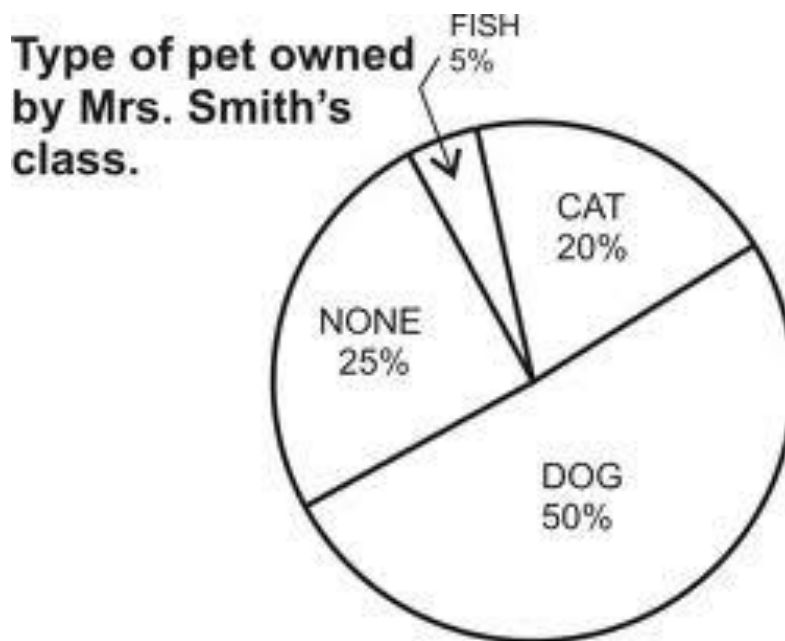
Q20. Mr. Singh is given a job of putting up lamp posts on one side of a street. The lamp posts must be equally spaced apart. Mr. Singh calculates that he needs 12 lamp posts with 20m between each one. How far is it from the first to the final post?

Answer =

Q21. Gary drives for 30 minutes at an average speed of 30 km/h. Ella does the same journey but drives at an average speed of 45 km/h. If Gary and Ella leave at the same time, how much sooner does Ella arrive at the destination ?

Answer =minutes

Q22. The pie chart shows the type of pets owned by children in Mrs. Smith's class.



a) If there are 40 children in the class, how many children have a fish?

Answer =

b) How many more children own a dog than a cat ?

Answer =

Q23. This is a timetable for trains from Magash to Sinny.

Magash	7.42	8.42	Then every	21.42	22.42
Tind	7.53	8.53	1 hour	21.53	22.53
St. Steep	8.09	9.09	until	22.09	-
Sinny	8.17	9.17		22.17	-

How many minutes does it take the train to travel from Tind to Sinny ?

Answer = **minutes**

Q24. The following sequence has the rule that the previous two numbers are added together to make the next number.
For example, $1 + 2 = 3$, and then $2 + 3 = 5$ and so on.

1, 2, 3, 5, 8, 13,

What is the 9th number in the sequence?

Answer =

Q25. What is the first square number greater than 500?

Answer =

Q26. Postcodes in Sandala are made using a vowel, followed by two digits.
For example, the first postcode issued was A00.

a) How many Sandala postcodes are possible starting with A0 ?

Answer =

b) How many Sandala postcodes are possible starting with A ?

Answer =

c) How many different Sandala postcodes are possible ?





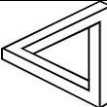

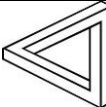

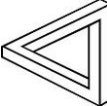







Answer =



Q27. What is the difference between 7.25 and 6.5 ?

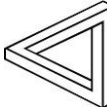

Write your answer as a fraction.

Answer =

Q28. Fill in the numerical values of the shapes. The totals of the rows and columns are given.

				Total	
					20
					42
					30
					28
Total	44	24	30	22	

a) Value of  = b) Value of  =

c) Value of  = d) Value of  =

Q29. Six mice take 5 days to eat 15 biscuits.

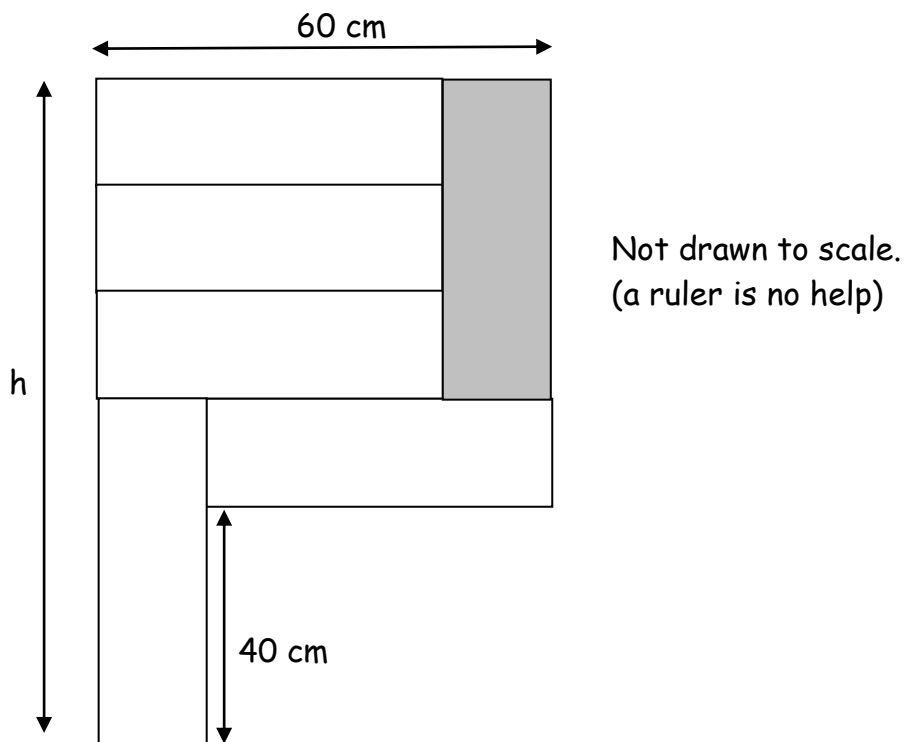
a) How many mice will it take 10 days to eat 15 biscuits?

Answer =

b) How many days will it take 10 mice to eat 45 biscuits?

Answer =

Q30. The following shape is made up of 5 identical rectangles, and a sixth rectangle with the same width, but shorter in length. (shaded).



a) What is the total height (h) of the shape ?

Answer = **cm**

b) What is the perimeter of the shape ?

Answer = **cm**

c) What is the area of the shape?

Answer = **cm²**

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