

Paper B. 2016

Maths Paper

11+

Name.....

Candidate Number.....

Seat Number.....

Please put your name in the space provided above.

This maths paper contains 36 questions, which you have 40 minutes to complete.

The paper is out of 40 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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1. What is a half of a quarter of 120?

Answer

2. What is $2.89 + 3.2$?

Answer

3. What is 'one thousand and fifty' subtracted from 'two hundred and fifty-six thousand, three hundred and six'?

Answer

4. How many thirds are there in nine?

Answer

5. What is the mean of 2,13,4,1 and 10?

Answer

6. Express 0.15 as a fraction in its simplest form.

Answer

7. Complete the sequence and write the answer on the answer line below:

1, 8, 27, 64,

Answer

8. If the size of the area of the following shapes were arranged in order, which would be the median sized shape? The shapes are not drawn to scale.



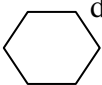
a) A square with perimeter 16cm



b) A circle with diameter 4cm



c) An equilateral triangle with perimeter 6cm



d) A regular hexagon with the longest diagonal measuring 4cm



e) A rectangle of area 20cm^2

Answer

9. A race takes place over 800m. The winner runs the whole race at a pace of 4km per hour. How long does it take him to complete the distance?

Answer

10. Three numbers total 15, but when multiplied together, the result is 60. what could the three numbers be?

Answer

11. and 12.

This table shows the results of a survey about favourite t.v. shows.
Fifty students were questioned altogether.

news	20%
athletics	10%
Music shows	5%
Reality shows	15%
Talent shows	40%
other	?

11. What fraction of children chose 'other' as their favourite type of programme?

Answer

12. What number of students chose athletics as their favourite entertainment on t.v.?

Answer

13. Ben sat a maths test. He scored 15 out of 20. Ben sat exactly the same paper the following week and achieved 80%. By how many questions did Ben increase his score?

Answer

14. A baby wombat doubles its weight every week, for the first eight weeks of its life.
If a baby wombat is born on 12th April, weighing 4kg, how much will it weigh on 10th May?

Answer kg

15. Donald buys three books for £3.99 each. How much change will he receive from £20?

Answer £.....

16. and 17.

A country changes currency and the king announces the following exchange rate:

Old money	New Money
1000 dems	1 magar (1 magar = 10 gams)
100 dems	1 gam (1 gam = 10 gars)
10 dems	1 gar (1 gar = 10 mars)
1 dem	1 mar

16. If a civilian has 11,500 dems, what is the maximum number of magars he can receive?

Answer

17. At the end of the day, only gams are left in the bank. If a shopkeeper wishes to exchange 7,400 dems into the new money, how many gams will he receive?

Answer

18. Qaaym and Qasim purchase a computer. Qasim pays 75% of the cost. If Qaaym's share is £150, how much does Qasim pay?

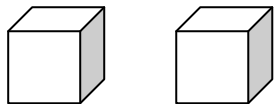
Answer £.....

19. If these decimals and fractions were arranged in descending order, which would be the smallest?

- a) $\frac{2}{5}$ b) 0.45 c) 0.401 d) $\frac{41}{100}$ e) $\frac{21}{50}$

Answer

20. Pat has two cubes of equal size that she glues together. If the longest side of the new cuboid is 4cm, what is the volume of one of the cubes?

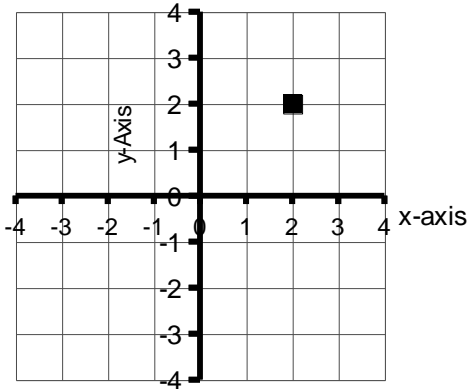


Answer cm^3

21. By how much is -7 less than 2?

Answer

22 and 23.



Ann stands on the square at (2,2). She faces south and moves three squares down. Then she turns right 90° and moves five squares ahead. Finally, she turns 135° clockwise.

22. What direction is she facing?

Answer

23. On what coordinates did Ann end up?

Answer

24. A jug that holds 2 litres is full of water. 8 cups of 100ml each are filled from the jug. Then the jug tips up and 50% of the remaining water is lost. More water from the jug is used to fill a kettle of capacity half a litre. How much water is left in the jug?

Answer ml

25. How many square tiles of 50 cm in length will it take to tile a bathroom wall of dimensions 6m x 2 m?

Answer

26. Complete this sum:

$$50 \div 4 = 10 + ?$$

Write your answer below.

Answer

27. Use the calculation $147 \times 23 = 3381$ to work out the following:

a) $1.47 \times 23 =$

Answer

b) $14.7 \times 2300 =$

Answer

c) $3381 \div 230 =$

Answer

d) $147 \times 22 =$

Answer

28. The car is drawn to a scale of 1:25. The length of the drawing is 6cm.



What is the length of the real car in metres?

Answer m

29. It is possible to buy rice in different quantities.

A 1 kg bag costs £5.00

A 3 kg bag costs £12.00

A 5 kg bag costs £24.00

A 10 kg bag costs £41.00

Which bag produces the cheapest rice per kg?

Answer kg

30. Asher has a large bag of marbles. If he puts them in groups of four marbles, he has 1 marble left over, if he puts them in groups of five he also has one marble left over, whilst if he puts them in groups of three he has two left over. What is the smallest number of marbles Asher has in the bag?

Answer

31. Work out the following:

a) $3 + 4 \times 6 - 2$

Answer

b) $(3 + 4) \times (6 - 2)$

Answer

32. The cinema has a capacity of 420 seats. If 350 people attend a film, what fraction of the cinema is empty?

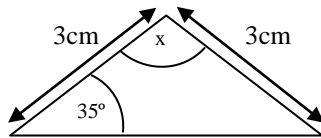
Answer

33. What is 1.891 to 1 decimal place?

Answer

34. What is the 'angle x' in the following triangle?

(diagram not drawn to scale)



Answer°

35. A choir of four singers can't decide which order to stand in on the stage. They try out each order with a different song to see which is most effective. How many songs do they get through before all the orders have been tried?

Answer

36. How many square numbers are there less than 900?

Answer

END OF TEST. /40