11+ Maths

Standard Practice Paper
Pack Two 11D

Fill in your details:

Name……………………………………………………………………………………………………

Date of birth……………………………………………………………………………………………

Male ☐   Female ☐

School…………………………………………………………………………………………………

Today's date……………………………………………………………………………………………

Read these instructions before you start:

- You have **50 minutes** to complete this paper.
- There are **50 questions** in this paper and each question is worth one mark.
- Show all working using the space around the questions. You may receive marks for correct working even if your final answer is wrong.
- Make sure you write the answers very clearly.
- You will not lose marks for crossing out.
- Work as quickly and carefully as you can.
- If you find a question difficult, do **NOT** spend too much time on it but move on to the next one.
- **Calculators and protractors are not allowed.**

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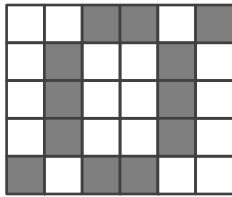**1** Write these prices in order, starting with the highest.

£3.08   38p   £3.80   £3.09   £0.99   £2.99

Answer:

2 Liam has a packet of marbles: 3 red, 4 blue and 5 yellow. What is the probability of picking a blue marble? Give your answer as a fraction.

Answer:

3 What percentage of the shape is unshaded?

Answer:

4 Charlie thinks of a number. He multiplies it by 6 and then adds 9 to the result. His answer is 51. What number did he think of?

Answer:

5 Calculate $\frac{5}{12}$ of 132.

Answer:

6 Richard rides his bike to his school every morning because his school is only 2 miles away. His average cycling speed is $6 \, miles/hour$. How long does it take him to get to his school every morning?

Answer:

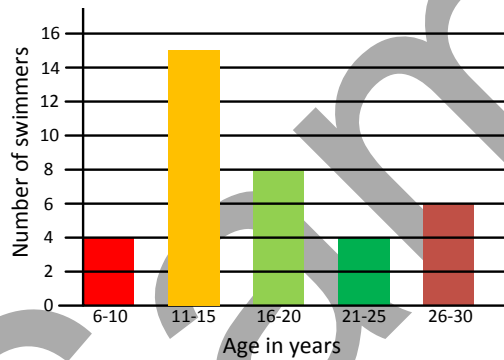**7** m stands for a number. Write the expression of 6 more than half m.

Answer:_____

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8   The table below shows the number of red and green apples in bag A and bag B. Tom chooses an apple from each bag without looking. From which bag is he more likely to choose green apples?

	red apples	green apples
bag A	4	6
bag B	3	9

Answer:_____

9

This graph shows the age of the swimmers in a swimming club. How many swimmers are aged 20 or younger?

Answer:_____

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10   All prime numbers are odd numbers. Is this statement TRUE or FALSE?
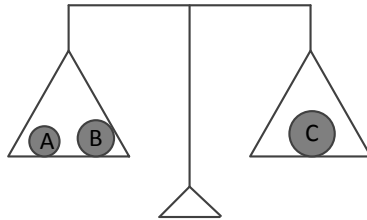

Answer:_____

11 Lisa drew a quadrilateral. It has 4 equal sides and two acute angles. What shape did she draw?

Answer:⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽

12 Which two decimals have a difference of 0.4?

   0.25   0.75   1.05   0.70   1.15

Answer:⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽

13

Ollie has three marbles which weigh $600g$ in total. Marble A and B together weigh the same as Marble C. Marble A weighs one third of Marble C. How much does Marble B weigh?
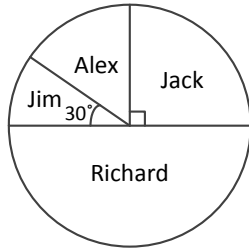
Answer:⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽

14 Write all the prime numbers between 1 and 20.

Answer:⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽

15 Convert 24% to a fraction. Give your answer in the simplest term.

Answer:⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽⎽

16

Seventy two students took a prediction survey about who would win the chess game. How many students predicted Alex would win?

Answer:_____

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17 Round $6\frac{4}{5}$ to the nearest whole number.

Answer:_____

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18 A4 size envelops are sold in a pack of 20. John needs 116 A4 size envelops. How many packs does he have to buy?
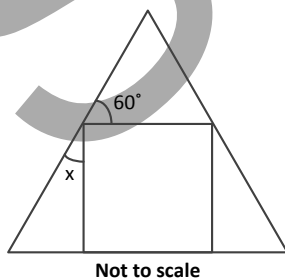
Answer:_____

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19 William has a bag which contains 4 apples and 6 bananas only. He puts 1 more apple and 4 more bananas in the bag. What fraction of the fruits in the bag are bananas now? Give the answer in its simplest term.

Answer:_____

20

Not to scale

Inside the triangle, there is a square. Calculate the size of angle x in the diagram.

Answer:_____

21

Recipe
200*ml* of milk
1*kg* of flour
4 tea spoons of sugar

Amy uses this recipe to make a cake. How many tea spoons of sugar does she need if she uses 750*g* of flour?

Answer:⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

22 There are 32 children in the class. Each needs 2 bottles of water for a school trip. Bottles of water are sold in packs of 12. How many packs need to be bought?

Answer:⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

23 Jack, Patrick and Richard ran a 100*m* race. Richard finished 2 seconds before Patrick. Jack finished 3 seconds after Patrick. Richard's time was 12 seconds. What was Jack's time in seconds?

Answer:⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

24 Amy and Kate had £2.50 altogether. Kate gave 20p to Amy so that both have the same amount. How much money did Amy have at the start?

Answer:⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯
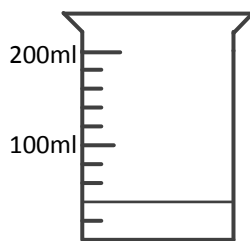
25 Work out 0.4×0.25

Answer:⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯

26 Ian scored 57 out 60 in a Non-Verbal Reasoning practice test. What percentage did he score?

Answer:_____

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27 The cost for taking a taxi is £1.20 per mile. Four people take a taxi to the airport which is 20 miles away. They share the cost equally. How much does each of them pay?

Answer:_____

28

Jonathan has a jug with concentrated apple juice in it. The level of the juice is shown in the diagram. He adds 0.12l of water in the jug to dilute the apple juice. What is the new level of the juice? Draw a line to show your answer.
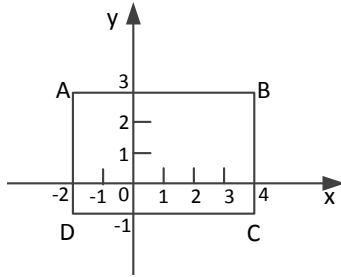
Answer:_____

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29 Calculate 0.56 × 2.5

Answer:_____

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30 Tom bought two muffins and one mug of hot chocolate. He paid £4.20. Charlie bought one muffin and one mug of hot chocolate. He paid £2.70. Work out the cost of hot chocolate.

Answer:_____

31

Here is a rectangle on x and y axes. Calculate the perimeter of this rectangle.

Answer:_____

32 Find a number which fits all of the following three statements:

It is a multiple of 3.
It is a multiple of 4.
It is bigger than 40 and smaller than 50.

Answer:_____

33 A book shop has a promotion: Buy Three Get the Cheapest One Half Price. Amy wants to buy three books which cost £9.99, £4.98 and £3.60. How much does she need to pay if she buys all three books?

Answer:_____

34 How many vertices does a cuboid have?
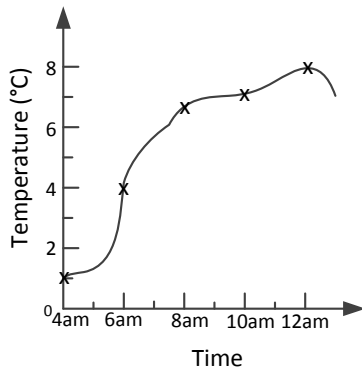
Answer:_____

35 A school sells the concert tickets for a charity. For each ticket sold, £1.50 is given to the charity. If the charity got £30, how many tickets were sold?

Answer:_____

36   How many quarters are there in 12?

Answer:_____

37

This graph shows the temperature of a winter morning in London. Use this graph to find the range of the temperature.
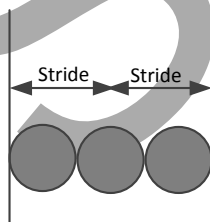
Answer:_____

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38   Round 349.578 to the nearest whole number.

Answer:_____

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39   Granny needs $1.2kg$ of potatoes to make a dish. She has $400g$ of potatoes already on the weighing scale. How many more grams of potatoes need to be added to the scale?

Answer:_____

40

Two strides have the same length as three footballs. How many footballs will have the same length as one hundred strides.
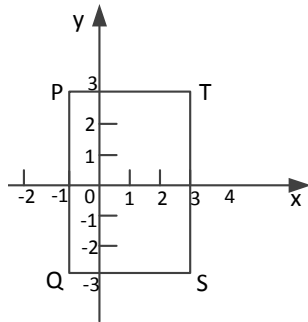
Answer:_____

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41   What is 30% of 140?

Answer:_____

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42   Round 3.0564 to 2 decimal places.

Answer:_____

43

PQST is a rectangle. Is point W with coordinates (-1.5, 2) inside the rectangle or outside?

Answer:_____

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44   Mike is y years old. His sister is 5 years younger than him. How old will his sister be in 10 years' time?
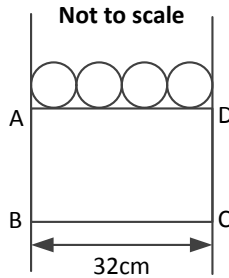
Answer:_____

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45   Round 14.348 to the nearest hundredth.

Answer:_____

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46 $3a - 4 = a + 7$
Work out the value of a.

Answer:_____

47

Not to scale

A · D

B · C

32cm

The diagram shows the rectangle ABCD which has the same length as 4 circles. If BC=32cm, calculate the radius of the circle.

Answer:_____

48

06:15	Music
07:00	News
07:20	Weather Report
07:30	Sports News

The table above shows the radio programmes in one evening. Tom turns on the radio at 06:52. How long does he have to wait for the Sports News?

Answer:_____

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49 If Tom swims for n minutes every day, how many hours does he swim for one week including weekends?

Answer:_____

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50 The table below shows the prices of two items. Work out the price of the dining table.

	Price
Sofa and Dining Table	£400
Dining Table and Chairs	£200
Sofa and Chairs	£300

Answer:_____