

Edexcel GCSE Mathematics Non-Calculator 2020 Foundation Paper 1 Revision Worksheet

Question 9

(a) A bag contains red counters and blue counters only. The number of red counters : number of blue counters = 3 : 4

Write down the fraction of the counters that are red.

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(b) Write the ratio 12 : 30 in the form 1 : n

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Question 10

Jenny has 12 marbles.

$\frac{1}{4}$ of these 12 marbles are large.

The rest of these 12 marbles are small.

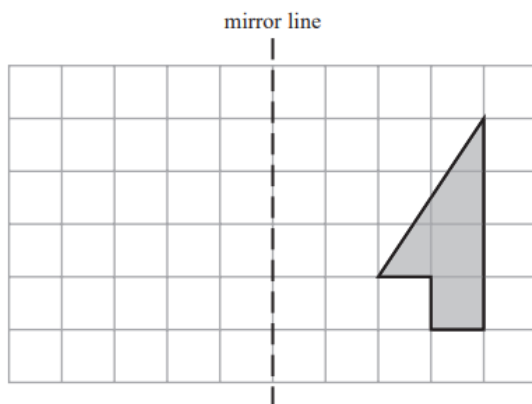
Each large marble has a weight of 70 grams.

Each small marble has a weight of 50 grams.

Work out the total weight of the 12 marbles.

..... grams

Question 11



Reflect the shaded shape in the mirror line.

Question 12

The diagram shows a number machine.



(a) Find the output when the input is 7

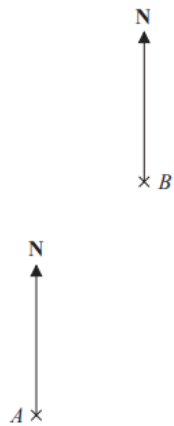
.....

(b) Find the input when the output is 41

.....

Question 13

The diagram shows two points, A and B, on a map.



Scale: 1 to 25 000

(a) Find the bearing of B from A.

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(b) Work out the real distance between A and B. Give your answer in kilometres.

..... kilometers

Question 14

Ishmael asked 30 students at college to tell him the sport they each like the best from cricket or tennis or swimming.

- 11 of the 20 female students said swimming.
- 2 of the male students said tennis.
- 5 students said cricket.
- The number of male students who said cricket was the same as the number of male students who said swimming.

Complete the two-way table.

	Cricket	Tennis	Swimming	Total
Male students				
Female students				20
Total				30

Question 15

Jamil makes a drink by mixing 1 part of orange squash with 9 parts of water.

He uses 750 millilitres of orange squash.

Jamil is going to put the drink he has mixed into 1 litre bottles.

Work out the greatest number of 1 litre bottles that Jamil can completely fill.

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Question 16

The table gives information about the number of points scored by each of 16 students in a game.

Number of points	Frequency
0	1
1	3
2	5
3	4
4	3

Tina worked out the median of the number of points scored to be 5.

(a) Explain why it is not possible for the median to be 5

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Tina also worked out the total number of points scored by the 16 students in the game. Here is her working:

$$(0 \times 1) + (1 \times 3) + (2 \times 5) + (3 \times 4) + (4 \times 3) = 1 + 3 + 10 + 12 + 12 = 38$$

Tina made a mistake in her working to find the total number of points scored.

(b) Describe the mistake that Tina made.

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Question 17

In a shop, a TV has a normal price of £500.

The shop has a sale.

On Monday, the normal price of the TV is reduced by $\frac{1}{10}$ to give the sale price.

On Tuesday, the sale price of the TV is reduced by 20%.

Chris wants to buy the TV. He has £400 to spend on the TV.

Does Chris have enough money to buy the TV on Tuesday?

You must show how you get your answer.