

GCSE QUESTIONS

Q1. CALCULATOR ALLOWED

$\frac{3}{5}$ of the people at a tennis club are women. The rest of the people are men.

What fraction of the people are men?

.....
(Total for question = 1 mark)

Q2. CALCULATOR ALLOWED

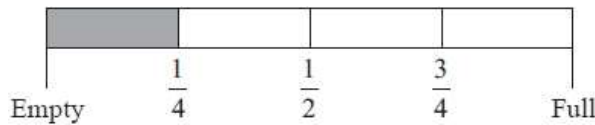
Harry has 20 sweets. He gives 7 of the sweets to Nadia.

What fraction of the 20 sweets does Harry have now?

.....
(Total for question = 2 marks)

Q3. CALCULATOR ALLOWED

Here is the gauge for the fuel tank of a car.



The fuel tank holds 52 litres of fuel when the tank is full.

The tank is $\frac{1}{4}$ full of fuel.

Work out how many more litres of fuel are needed to fill the tank.

..... litres
(Total for question = 3 marks)

Q4. CALCULATOR ALLOWED

Here is a list of fractions.

- $\frac{3}{9}$ $\frac{5}{15}$ $\frac{7}{21}$ $\frac{9}{30}$ $\frac{15}{45}$

One of these fractions is **not** equivalent to $\frac{1}{3}$. Which fraction?

.....
(Total for question = 1 mark)

Q5. CALCULATOR ALLOWED

Here are four fractions.

$$\frac{1}{2} \quad \frac{17}{24} \quad \frac{3}{4} \quad \frac{5}{12}$$

Write these fractions in order of size. Start with the smallest fraction.

.....
(Total for question is 2 marks)

Q6. CALCULATOR ALLOWED

Here are four fractions.

$$\frac{2}{5} \quad \frac{11}{30} \quad \frac{1}{2} \quad \frac{7}{15}$$

Write these fractions in order of size. Start with the smallest fraction.

.....
(Total for question = 2 marks)

Q7. CALCULATOR ALLOWED

Here are four fractions.

$$\frac{3}{4} \quad \frac{5}{7} \quad \frac{19}{25} \quad \frac{11}{15}$$

Write the fractions in order of size. Start with the smallest fraction.

.....
(Total for question = 2 marks)

Q8. CALCULATOR ALLOWED

Write an integer in the box to make the statement true.

$$\frac{2}{7} > \frac{6}{\square}$$

Explain why the statement is true.

.....

(Total for question = 2 marks)

Q9. CALCULATOR ALLOWED

Find $\frac{1}{3}$ of 30

.....

(Total for question = 1 mark)

Q10. CALCULATOR ALLOWED

Work out $\frac{1}{8}$ of 720

.....

(Total for question = 1 mark)

Q11. CALCULATOR ALLOWED

Work out $\frac{4}{5}$ of 210 cm.

..... cm

(Total for question is 1 mark)

Q12. CALCULATOR ALLOWED

Find the number that is exactly halfway between $\frac{1}{10}$ and $\frac{3}{5}$

.....

(Total for question = 2 marks)

Q13. CALCULATOR ALLOWED

Living to 100 years old

1 in 3 babies born last year
are expected to live
to 100 years old

720 000 babies were born last year.

How many of these babies are expected to live to 100 years old?

.....
(Total for question = 2 marks)

Q14. CALCULATOR ALLOWED

There are 6760 people at a rugby match. 3879 of the people are men. 1241 of the people are women.

$\frac{1}{4}$ of the children are girls.

Work out how many boys are at the rugby match.

.....
(Total for question = 3 marks)

Q15. CALCULATOR ALLOWED

There are 375 pupils at a school. 195 of the pupils are boys.

$\frac{3}{5}$ of the boys walk to school.

$\frac{2}{3}$ of the girls walk to school.

Work out how many pupils walk to school.

.....
(Total for question = 3 marks)

Q16. CALCULATOR ALLOWED

Lethna worked out $\frac{2}{5} + \frac{1}{2}$

She wrote:

$$\frac{2}{5} + \frac{1}{2} = \frac{2}{10} + \frac{1}{10} = \frac{3}{10}$$

The answer of $\frac{3}{10}$ is wrong.

(a) Describe one mistake that Lethna made.

.....

(1)

Dave worked out $1\frac{1}{2} \times 5\frac{1}{3}$

He wrote:

$$1 \times 5 = 5 \quad \text{and} \quad \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

$$\text{so } 1\frac{1}{2} \times 5\frac{1}{3} = 5\frac{1}{6}$$

The answer of $5\frac{1}{6}$ is wrong.

(b) Describe one mistake that Dave made.

.....

(1)

(Total for question is 2 marks)

Q17. CALCULATOR ALLOWED

Ravi buys some hats to sell at a school fete. He buys 40 hats for a total of £120

Ravi sells $\frac{3}{4}$ of these hats at £4.50 each.

He reduces the selling price of the remaining hats to £4 each. He sells half of the remaining hats at this selling price. Work out the profit that Ravi makes.

£

(Total for question = 5 marks)

Q18. CALCULATOR ALLOWED

$\frac{4}{5}$ of a number is 32

Find the number.

.....
(Total for question = 2 marks)

Q19. CALCULATOR ALLOWED

Jim thinks of a number.

$\frac{2}{3}$ of Jim's number is 48

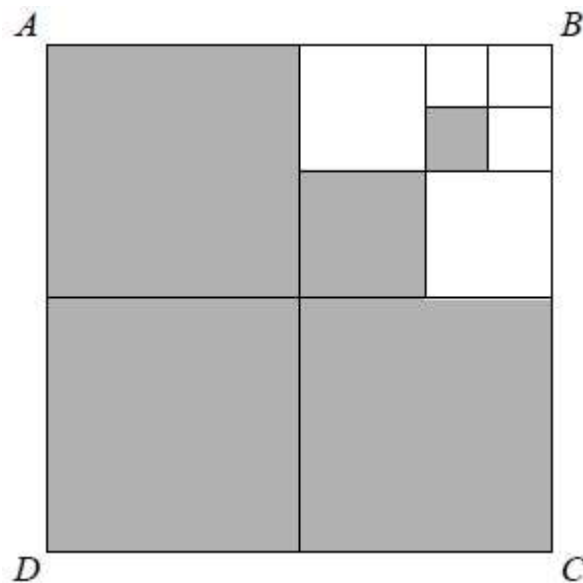
Work out $\frac{5}{6}$ of Jim's number.

.....
(Total for question = 2 marks)

Q20. CALCULATOR ALLOWED

$ABCD$ is a square.

This diagram is drawn accurately.



What fraction of the square $ABCD$ is shaded?

.....
 (Total for question = 2 marks)