

GCSE QUESTIONS

Q1. NON-CALCULATOR

Write the fraction $\frac{28}{70}$ in its simplest form.

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

Q2. NON-CALCULATOR

Here is a list of four fractions.

$$\frac{4}{16} \qquad \frac{2}{8} \qquad \frac{15}{60} \qquad \frac{3}{9}$$

One of these fractions is **not** equivalent to $\frac{1}{4}$

Write down this fraction.

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

Q3. NON-CALCULATOR

Work out $\frac{1}{4} \times 60$

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

Q4. NON-CALCULATOR

There are 120 people at a party.

$\frac{1}{3}$ of the people leave the party. Work out the number of people still at the party.

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

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Q5. NON-CALCULATOR

Sam has £480

He spends $\frac{1}{4}$ of the £480. Work out how much money Sam has left.

.....
(Total for Question is 3 marks)

Q6. NON-CALCULATOR

(a) Work out $\frac{2}{5} + \frac{1}{4}$

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

Q7. NON-CALCULATOR

Work out $\frac{3}{8} + \frac{1}{2}$

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

Q8. NON-CALCULATOR

Work out $\frac{3}{8} + \frac{1}{3}$

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

Q9. NON-CALCULATOR

Work out $\frac{2}{5} + \frac{3}{8}$

Give your answer in its simplest form.

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

Q10. NON-CALCULATOR

Work out $\frac{1}{5} + \frac{3}{7}$

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

Q11. NON-CALCULATOR

Work out $\frac{1}{3} + \frac{5}{9}$

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

Q12. NON-CALCULATOR

Work out $3\frac{4}{5} + \frac{3}{7}$

Give your answer as a mixed number in its simplest form.

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

Q13. NON-CALCULATOR

Work out $1\frac{3}{4} \times 1\frac{1}{3}$

Give your answer as a mixed number.

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

Q14. NON-CALCULATOR

Work out $3\frac{1}{2} \times 1\frac{3}{5}$

Give your answer as a mixed number in its simplest form.

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

Q15. NON-CALCULATOR

Here are some fractions.

$$\frac{9}{12} \quad \frac{6}{8} \quad \frac{18}{24} \quad \frac{10}{16} \quad \frac{15}{20}$$

One of these fractions is **not** equivalent to $\frac{3}{4}$

(a) Which fraction?

.....
(1)

(b) Work out $\frac{1}{12} + \frac{5}{6}$

.....
(2)

(Total for question = 3 marks)

Q16. NON-CALCULATOR

(a) Work out $\frac{2}{3} - \frac{1}{5}$

.....
(2)

(b) Work out $\frac{2}{3} \times \frac{3}{4}$

Give your answer as a fraction in its simplest form.

.....
(2)

(Total for question = 4 marks)

Q17. NON-CALCULATOR

(a) Work out $\frac{2}{7} + \frac{1}{5}$

.....
(2)

(b) Work out $1\frac{2}{3} \div \frac{3}{4}$

.....
(2)
(Total for question = 4 marks)

Q18. NON-CALCULATOR

(a) Work out $1\frac{3}{4} + 3\frac{1}{2}$

.....
(1)

(b) Work out $\frac{3}{7} \times \text{£}28$

£.....
(2)
(Total for question = 3 marks)

Q19. NON-CALCULATOR

(a) Work out $2\frac{1}{7} + 1\frac{1}{4}$

.....
(2)

(b) Work out $1\frac{1}{5} \div \frac{3}{4}$

Give your answer as a mixed number in its simplest form.

.....
 (2)
 (Total for question = 4 marks)

Q20. NON-CALCULATOR

(a) Work out $\frac{1}{5}$ of 70

.....
 (1)

Fiona has to work out the exact value of $48 \div \frac{1}{2}$

She writes

$$48 \div \frac{1}{2} = 24$$

Fiona's reason is, "There are 2 halves in 1, so there will be 24 halves in 48"

(b) Explain what is wrong with Fiona's reason.

.....

(1)
 (Total for question = 2 marks)

Q21. NON-CALCULATOR

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

$$\frac{1}{3} \quad \frac{3}{4} \quad \frac{1}{4} \quad \frac{7}{12} \quad \frac{1}{2}$$

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

Q22. NON-CALCULATOR

Here are two fractions.

$$\frac{7}{5} \qquad \frac{5}{7}$$

Work out which of the fractions is closer to 1. You must show all your working.

(Total for question = 3 marks)

Q23. NON-CALCULATOR



The normal price of a denim shirt at a shop is £9.60

On Special Offer Day, there is $\frac{1}{3}$ off the normal price.

Billy has £13. Has he enough money to buy two denim shirts on Special Offer Day? You must show all your working.

(Total for Question is 4 marks)

Q24. NON-CALCULATOR

Sue has 2 cats.

Each cat eats $\frac{1}{4}$ of a tin of cat food each day.

Sue buys 8 tins of cat food. Has Sue bought enough cat food to feed her 2 cats for 14 days? You must show how you get your answer.

(Total for question = 3 marks)