

Fractions, decimals and percentages – GCSE Mathematics Paper 1**1. No.9**

Shona has 14 dresses.

50% of these dresses are red.

She gives 5 of her red dresses to a charity shop.

She buys 1 new red dress.

What percentage of the dresses she has now are red?

[4 marks]

Answer _____ %

2. No.12Work out $\frac{11}{18} - \frac{1}{3}$ **[2 marks]**

Answer _____

3. No.18

Work out $80\,000\,000 \div 200$

Give your answer in standard form.

[2 marks]

Answer

4. No.23

(a) In each box, write a fraction **less** than 1 to make a correct calculation.

[1 mark]

$$\boxed{\frac{\quad}{\quad}} \times \boxed{\frac{\quad}{\quad}} = \frac{3}{10}$$

(b) In each box, write a decimal **less** than 1 to make a correct calculation.

[1 mark]

$$\boxed{} \times \boxed{} = 0.06$$

5. No.2

What is 0.28 as a fraction of 0.8 ?

Circle your answer.

[1 mark]

$$\frac{7}{20}$$

$$\frac{2}{7}$$

$$\frac{20}{7}$$

$$\frac{7}{2}$$

6. No.3

Circle the calculation that increases 240 by 7.5%

[1 mark]

$$240 \times 1.0705$$

$$240 \times 1.705$$

$$240 \times 1.075$$

$$240 \times 1.75$$

7. No.5

Work out $80\,000\,000 \div 200$

Give your answer in standard form.

[2 marks]

Answer _____

8. No.9

(a) In each box, write a fraction **less** than 1 to make a correct calculation.

[1 mark]

$$\boxed{\frac{\quad}{\quad}} \times \boxed{\frac{\quad}{\quad}} = \frac{3}{10}$$

(b) In each box, write a decimal **less** than 1 to make a correct calculation.

[1 mark]

$$\boxed{} \times \boxed{} = 0.06$$

Give your answer as a fraction in its simplest form.

[5 marks]

[illegible]

Answer _____

10. No.1Circle the answer to 0.02×100 **[1 mark]**

0.2

2

20

200

11. No.12

10% of 2100 is 210

Work out 43% of 2100

[3 marks]

Answer _____

12. No.17

Work out $\frac{5}{6} + \frac{7}{12}$

Give your answer as a mixed number.

[3 marks]

Answer _____

13. No.23

Lily's age is 2 years and 4 months.

Hugo's age is 1 year and 8 months.

Write Lily's age in months as a fraction of Hugo's age in months.

Give your fraction in its simplest form.

[2 marks]

Answer _____

14. No.2

$x \neq 0.4$

Circle the possible value of x .

[1 mark]

$$\frac{4}{10}$$

$$\frac{20}{50}$$

$$\frac{26}{70}$$

$$\frac{120}{300}$$

15. No.6

Lily's age is 2 years and 4 months.

Hugo's age is 1 year and 8 months.

Write Lily's age in months as a fraction of Hugo's age in months.

Give your fraction in its simplest form.

[2 marks]

Answer

16. No.13

Convert $\frac{5}{6}$ to a recurring decimal.

[2 marks]

Answer _____

17. No.22

Work out the value of $\left(\frac{5}{7}\right)^{-2}$

Give your answer as a mixed number.

[3 marks]

Answer _____