

1. Write the following numbers in ascending order.

$$\frac{7}{10}, \frac{6}{8}, \frac{3}{5}, \frac{4}{7}$$

$$\frac{4}{7}, \frac{3}{5}, \frac{7}{10}, \frac{6}{8}$$

(2 marks)

2. Work out 107×122

$$13054$$

(2 marks)

3. Work out $\text{£}12.42 \div 6$

$$\text{£}2.07$$

(1 mark)

4. Work out 8^{-2}

$$\frac{1}{64}$$

(1 mark)

5. Round 5.64781 to 2 significant figures.

$$5.6$$

(1 mark)

6. Write down the third cube number.

$$64$$

(1 mark)

7. Work out $\left(\frac{1}{3}\right)^3$

$$\frac{1}{27}$$

(2 marks)

8. A number has been rounded to 3.6 to the nearest 1 decimal place.

Write down the error interval

$$3.55 \leq x < 3.65$$

(2 marks)

9. Work out $8^{\frac{1}{3}}$

$$2$$

(1 mark)

10. Work out h^0

$$1$$

(1 mark)

11. Some money has been shared between Ross and Katie in the ratio 2:5.
Katie received £21 more than Ross.
How much did they have all together?

£49

.....
(2 marks)

12. Simplify $\sqrt{24}$

 $2\sqrt{6}$
(2 marks)

13. Work out $1\frac{3}{4} + \frac{3}{5}$

 $2\frac{7}{20}$
(2 marks)

14. Work out $1\frac{2}{3} \times \frac{1}{8}$

 $\frac{5}{24}$
(2 marks)

15. Express 135 as a product of its prime factors.

 $3^3 \times 5$
(2 marks)

16. Workout the HCF and LCM of 21 and 12.

 $HCF = 3$
 $LCM = 84$
(2 marks)

17. Write 1.08×10^4 as an ordinary number.

10,800

.....
(2 marks)

18. Convert 70000000 into standard form.

 7×10^7
(2 marks)

19. Work out $(2 \times 10^4) \times (6 \times 10^7)$

 1.2×10^{12}
(3 marks)

Score =