

1. Write the following numbers in ascending order.

$$\frac{4}{9}, \quad \frac{3}{18}, \quad \frac{5}{36}, \quad \frac{2}{3}$$

$$\frac{5}{36}, \frac{3}{18}, \frac{4}{9}, \frac{2}{3}$$

(2 marks)

2. Work out 125×161

$$20125$$

(2 marks)

3. Work out $\text{£}13.35 \div 5$

$$\text{£}2.67$$

(1 mark)

4. Work out 7^{-2}

$$\frac{1}{49}$$

(1 mark)

5. Round 18.92412 to the nearest integer.

$$19$$

(1 mark)

6. Write down the fifteenth square number.

$$225$$

(1 mark)

7. Work out $\left(\frac{3}{5}\right)^3$

$$\frac{37}{125}$$

(2 marks)

8. A number has been rounded to 2.7 to the nearest 1 decimal place.

Write down the error interval

$$2.65 \leq x < 2.75$$

(2 marks)

9. Work out $125^{\frac{2}{3}}$

$$25$$

(1 mark)

10. Work out 6^0

$$1$$

(1 mark)

11. Some money has been shared between Leah and Ali in the ratio 1:4.
Ali received £36 more than Leah.
How much did they have all together? £60
.....
(2 marks)

12. Simplify $\sqrt{200}$ $10\sqrt{2}$
.....
(2 marks)

13. Work out $1\frac{1}{2} - \frac{4}{5}$ $\frac{7}{10}$
.....
(2 marks)

14. Work out $1\frac{3}{5} \div \frac{2}{3}$ $2\frac{2}{5}$
.....
(2 marks)

15. Express 90 as a product of its prime factors. $2 \times 3^2 \times 5$
.....
(2 marks)

16. Workout the HCF and LCM of 20 and 24. $HCF = 4$
 $LCM = 120$
.....
(2 marks)

17. Write 2.46×10^{-5} as an ordinary number. 0.0000246
.....
(2 marks)

18. Convert 32×10^8 into standard form. 3.2×10^9
.....
(2 marks)

19. Work out $(3 \times 10^5) \times (6 \times 10^7)$ 1.8×10^{13}
.....
(3 marks)

Score =