

1. Write the following numbers in ascending order.

$$\frac{7}{11}, \frac{9}{12}, \frac{5}{7}, \frac{4}{13}$$

$$\dots \frac{4}{13}, \frac{7}{11}, \frac{5}{7}, \frac{9}{12} \dots$$

(2 marks)

2. Work out  $£2.78 \times 17$

$$\dots \dots \dots \text{£}47.26$$

(2 marks)

3. Work out  $£32.22 \div 9$

$$\dots \dots \dots \text{£}3.58$$

(1 mark)

4. Work out  $4^{-3}$

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

(1 mark)

5. Estimate  $19.424 \div 0.49$

$$\dots \dots \dots 40$$

(1 mark)

6. Write down the 18<sup>th</sup> square number.

$$\dots \dots \dots 324$$

(1 mark)

7. Work out  $\left(\frac{2}{5}\right)^4$

$$\frac{16}{625}$$

(2 marks)

8. A number has been rounded to 24 to the nearest 2 significant figures.

Write down the error interval

$$\dots \dots \dots 23.5 \leq x < 24.5$$

(2 marks)

9. Work out  $32^{\frac{3}{5}}$

$$\dots \dots \dots 8$$

(2 marks)

10. Work out  $y^0$

$$\dots \dots \dots 1$$

(1 mark)

11. Some money has been shared between Leo, Jake and Sue in the ratio 5:3:7.  
Sue received £28 more than Jake.

How much did they have all together?

£105

.....  
(2 marks)

12. Simplify  $\sqrt{112}$

$4\sqrt{7}$

.....  
(2 marks)

13. Work out  $1\frac{2}{5} - \frac{5}{8}$

$\frac{31}{40}$

.....

(2 marks)

14. Work out  $1\frac{4}{5} \div 1\frac{3}{4}$

$1\frac{1}{35}$

.....  
(2 marks)

15. Express 882 as a product of its prime factors.

$2 \times 3^2 \times 7^2$

.....  
(2 marks)

16. Workout the HCF and LCM of 40 and 36.

HCF = 4

LCM = 360

.....  
(2 marks)

17. Write  $3.51 \times 10^4$  as an ordinary number.

35100

.....  
(2 marks)

18. Convert  $125.3 \times 10^7$  into standard form.

$1.253 \times 10^9$

.....  
(2 marks)

19. Work out  $(2.7 \times 10^8) \div (9 \times 10^{-4})$

$3 \times 10^{11}$

.....  
(3 marks)

Score =