

- 1 List all the factors of 36.
- 2 What is the HCF of 85 and 184
- 3 Light A blinks every 70 seconds. Light B blinks every 25 seconds. If both lights blink at the same time, after how long do they blink again at the same time?
- 4 Round 482.388 to the nearest tenth.
- 5 In the number 839284, what is the value of the three?
- 6 Round 872.382 to one significant figure.
- 7 Round 893.291 to two significant figures.
- 8 Truncate 3928.482 to the nearest tenth.
- 9 G is rounded to the nearest tenth. It rounds to 782.3. Write down the error interval of G.
- 10 Find the value of  $\frac{7^3 + 5^3}{8^2}$ . Give your answer as a number.
- 11 Find the value of  $\frac{8^7 \times 32^4 \times 128^3}{64^5}$ . Give your answer in index form.
- 12 Factorise  $16x^2 + 24x$  fully.
- 13 Expand and simplify  $5x(3x + y) + 7x(4x - 3)$
- 14 Expand  $(4x - 3)(5x + 2)$
- 15 Factorise and solve  $4x^2 + 20x + 21 = 0$
- 16 Write  $x^2 + 24x - 7$  in completed square format.
- 17 Factorise  $16x^2 - \frac{9}{25}$
- 18  $\frac{36}{55} \times \frac{13}{18} \times \frac{33}{39} \times \frac{16}{42} \times \frac{54}{80} \times \frac{10}{18} =$
- 19 Estimate  $\frac{4032 \times 5054 \times 388.923}{472.847 \times 3782 \times 392} \approx$
- 20  $\frac{m^5 \times m^a \times n^7}{n^{11}} = m^{25}n^b$  Find the values of a and b.