



- 1 List all the factors of 52.
- 2 What is the HCF of 72 and 192
- 3 Light A blinks every 48 seconds. Light B blinks every 32 seconds. If both lights blink at the same time, after how long do they blink again at the same time?
- 4 Round 62.4399 to the nearest tenth.
- 5 In the number 546.6231, what is the value of the three?
- 6 Round 6732.326 to one significant figure.
- 7 Round 0.0095812 to two significant figures.
- 8 Truncate 684.394 to the nearest tenth.
- 9 G is rounded to the nearest tenth. It rounds to 17.4. Write down the error interval of G.
- 10 Find the value of $\frac{8^3 + 11^2}{12^2}$. Give your answer as a number.
- 11 Find the value of $\frac{81^4 \times 2187^5 \times 27^6}{729^{11}}$. Give your answer in index form.
- 12 Factorise $48x^2 + 16x$ fully.
- 13 Expand and simplify $9x(2x + 3y + 7) - 5x(6x + y - 8)$
- 14 Expand $(5x - 9)(7x + 6)$
- 15 Factorise and solve $6x^2 + 37x + 56 = 0$
- 16 Write $x^2 + 18x - 35$ in completed square format.
- 17 Factorise $\frac{25}{81}x^2 - \frac{16}{36}$
- 18 $\frac{27}{55} \times \frac{49}{65} \times \frac{33}{39} \times \frac{56}{343} \times \frac{35}{80} \times \frac{10}{32} =$
- 19 Estimate $\frac{683.23 \times 16.54 \times 59.342}{29.847 \times 729.2 \times 44.83} \approx$
- 20 $\frac{m^7 \times m^a \times n^{23}}{n^{41}} = m^{25}n^b$ Find the values of a and b.