



1) Expand and simplify $(3x - 5)(7x - 4)$

2) Factorise fully $8x + 20x^3$

3) Factorise $x^2 - 2x - 8$

4) Work out $33 \div 0.3$

5) Work out $3\frac{1}{3} \times 2\frac{2}{5}$



- 1) Make x the subject of $y = ax^2 - 4$
- 2) Divide 400kg in the ratio 3 : 5
- 3) Work out the value of $3x^2 + y$ when $x = -2$ and $y = 6$
- 4) The mean of 7, 12, 3, x , 11 is 9. Find x
- 5) Solve $\frac{x}{2} + 6 = 3x - 14$



1) Expand and simplify $(4x + 5)(3x - 7)$

2) Factorise fully $8x^3 + 12x^2$

3) Factorise $x^2 - 9x + 20$

4) Work out $64 \div 0.5$

5) Work out $1\frac{1}{3} \div 2\frac{1}{6}$



- 1) Make x the subject of $y = \sqrt{ax - 4}$
- 2) Divide 450kg in the ratio 2 : 7
- 3) Work out the value of $2x^2 - y$ when $x = 3$ and $y = -2$
- 4) The median of 7, 25, x , 7, 8 and 28 is 10. Find x
- 5) Solve $\frac{3x+7}{2} = 2x + 14$



1) Expand and simplify $(3x - 5)(4x - 7)$

2) Factorise fully $6x^3 - 18x^4$

3) Factorise $x^2 - 3x - 18$

4) Work out $64 \div 0.4$

5) Work out $3\frac{1}{3} - 2\frac{5}{6}$



- 1) Make x the subject of $y = \sqrt{ax} - b$
- 2) Divide 440kg in the ratio 3 : 5
- 3) Work out the value of $3x^2 - 2y$ when $x = -2$ and $y = 3$
- 4) The mean of 7, 15, x , 7, 8 and 18 is 10. Find x
- 5) Solve $\frac{2x-1}{3} = 2x - 11$