

IGCSE rearranging

1.

Make y the subject of the formula.

$$A = \frac{r(y+2)}{5}$$

Answer $y =$

[3]

2.

Make d the subject of the formula $c = \frac{5d + 4w}{2w}$.

Answer $d =$

[3]

3.

Make x the subject of the formula.

$$P = \frac{x+3}{x}$$

Answer $x =$

[4]

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4. Make k the subject of the formula $4A = 4k^2 - \pi k^2$.

Answer(b) $k =$ [3]

5. Rearrange the formula $c = \frac{4}{a-b}$ to make a the subject.

Answer a = [3]

6. Make x the subject of the formula. $y = \frac{x}{3} + 5$

Answer x = [2]

7. Make w the subject of the formula.

$$c = \frac{4+w}{w+3}$$

Answer w = [4]

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8. Make w the subject of the formula.

$$t = 2 - \frac{3w}{a}$$

Answer $w =$ [3]

$$T = 2\pi \sqrt{\frac{\ell}{g}}$$

9. (a) Find T when $g = 9.8$ and $\ell = 2$.

Answer(a) $T =$ [2]

- (b) Make g the subject of the formula.

Answer(b) $g =$ [3]

$$w = \frac{1}{\sqrt{LC}}$$

10. (a) Find w when $L = 8 \times 10^{-3}$ and $C = 2 \times 10^{-9}$.
Give your answer in standard form.

Answer(a) $w =$ [3]

- (b) Rearrange the formula to make C the subject.

Answer(b) $C =$ [3]

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11.

$$ap = px + c$$

Write p in terms of a , c and x .

Answer $p =$ [3]

12.

Rearrange the formula $y = \frac{x+2}{x-4}$ to make x the subject.

Answer $x =$ [4]

13.

Make y the subject of the formula.

$$A = \pi x^2 - \pi y^2$$

Answer $y =$ [3]

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14. Make x the subject of $y = \frac{(x+3)^2}{5}$.

Answer $x =$ [3]

15. Rearrange the formula $J = mv - mu$ to make m the subject.

Answer $m =$ [2]

16. $\frac{g}{2} = \sqrt{\frac{h}{i}}$

Find i in terms of g and h .

Answer $i =$ [3]