## Mathematics

## Algebra - Solving Equations - Part 1

## Practice Questions

## What do I do?

When solving equations, you'll be asked to solve an unknown quantity that has been represented by a letter or symbol.

When working through the question, always be mindful to put the equals sign in the middle and whatever you do to one side of the ' $=$ ' sign, you must do to the other side.

Example:

g) $4 x-8=12$
$x=$ $\qquad$
h) $8 x+5=53$
$x=$ $\qquad$
i) $3 x+9=30$
$x=$ $\qquad$
j) $7 x-6=43$
$x=$ $\qquad$
k) $9 x+4=49$
$x=$ $\qquad$
I) $2 x-7=11$
$x=$ $\qquad$
m) $5 x+12=37$
$\mathrm{X}=$ $\qquad$
n) $6 x-5=31$ $\qquad$
o) $10 x+9=99$
$x=$ $\qquad$

Now try this...
A shop sells prints for $£ 25$ and charges $£ 17$ for postage and packaging on top. Milly spends $£ 192$ on her order. How many prints did she buy?

Ready for more challenging questions?
Try Solving Equations - Part 2.


## Top Tips! <br> You could be asked to:

$$
2 x=12
$$



$$
x=6
$$

need to use our inverse and
divide by two!

- Form an equation from a written problem
- Solve an equation by stating what a letter or symbol means
- There might be an unknown value on one side or both sides of the equals sign.


## What skills do I need to improve?

Doing lots of practice questions will help with becoming familiar with question types but what else can you do to improve in this area?

- Lots of practice! Working systematically and neatly will help you to work through the question without making silly mistakes.


## Mathematics

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## Answers

a) $x=6$
i) $x=7$
b) $x=5$
j) $x=7$
c) $x=6$
k) $x=5$
d) $x=4$
I) $x=9$
e) $x=3$
m) $x=5$
f) $x=4$
n) $x=6$
g) $x=5$
o) $x=9$
h) $x=6$

