



# **Mathematics**

# Algebra - Solving Equations - Part 1

### **Practice Questions**

a) 
$$2x + 5 = 17$$

b) 
$$3x - 4 = 11$$

c) 
$$4x + 7 = 31$$

d) 
$$5x + 2 = 22$$

e) 
$$2x + 3 = 9$$

f) 
$$6x + 3 = 27$$

q) 
$$4x - 8 = 12$$

i) 
$$3x + 9 = 30$$

j) 
$$7x - 6 = 43$$

$$k) 9x + 4 = 49$$

1) 
$$2x - 7 = 11$$

m) 
$$5x + 12 = 37$$

n) 
$$6x - 5 = 31$$

o) 
$$10x + 9 = 99$$

Now try this...

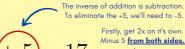
Ready for more challenging questions? Try Solving Equations - Part 2.

### 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.





$$2x + 5 = 17$$

2x = 12

Now we need x on it's own.

2x means TWO times x, so we need to use our inverse and divide by two!

x = 6

## **Top Tips!**



#### You could be asked to:

- 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.





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## Algebra - Solving Equations - Part 1

### **Answers**

a) x = 6

i) x = 7

b) x = 5

j) x = 7

c) x = 6

k) x = 5

d) x = 4

l) x = 9

- e) x = 3
- m) x = 5
- f) x = 4

n) x = 6

g) x = 5

o) x = 9

h) x = 6



Milly bought 7 prints.

25x + 17 = 192 x = 7