

Welcome to Year 6 Maths


The lesson will begin at 12:00pm

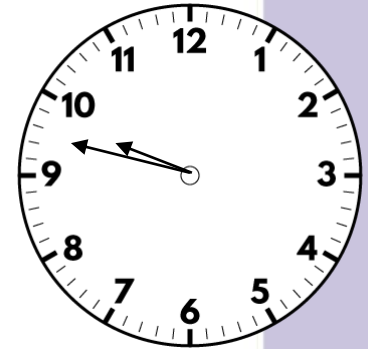


Turn your camera and microphone **off** please

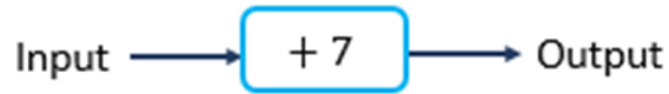
25/02/21

I can use various strategies to answer arithmetic questions.

A large, light blue brushstroke that starts from the bottom right and curves upwards and to the left, resembling a stylized 'C' or a swoosh.



- 1) Write an expression for the output if x is input to this function machine.



$$x + 7$$

- 2) Find 25% of 180 45

- 3) Write $\frac{3}{4}$ as a decimal 0.75

- 4) How many sides has a hexagon? 6

25/02/21

Maths

I can recognise subtraction with
algebra.

GET READY



1) Use multilink and base ten to represent these expressions.



$= x$



$= 1$

a) $3x + 3$

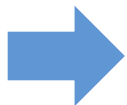
b) $4x$

c) $x + 5$

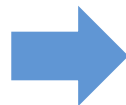
d) $2 + 2x$

2) Complete the function machines.

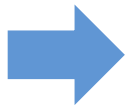
y



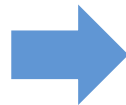
$\div 5$



y



$\times 6$



1) Use multilink and base ten to represent these expressions.



$= x$



$= 1$

a) $3x + 3$

$= x = x = x$

b) $4x$

$= x = x = x = x$

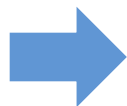
c) $x + 5$

$= x$

d) $2 + 2x$

2) Complete the function machines.

y

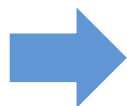


$\div 5$



$\frac{y}{5}$

y



$\times 6$



$6y$

LET'S LEARN



How much is there?



Substitution

A dashed blue box contains the equation $50\text{ p} + 20\text{ p} + 20\text{ p} = 90\text{ p}$. Three blue arrows point from the coins above to the terms in the equation: the first arrow points from the 50p coin to 50 p, the second from the first 20p coin to 20 p, and the third from the second 20p coin to 20 p.

$$50\text{ p} + 20\text{ p} + 20\text{ p} = 90\text{ p}$$

Substitution



Out	In
10	7



Have a think



$$\bigcirc = 10$$

$$\triangle = 5$$

What would be the totals of these calculations?

$$\bigcirc + \triangle + \triangle = 20$$

$$\bigcirc + \bigcirc + \bigcirc + \triangle = 35$$

$$\text{Red Circle} = 10$$

$$\text{Yellow Triangle} = 5$$

How many different ways
could we total 30?

$$3 \text{ Red Circles} = 30$$

Have a think



$$2 \text{ Red Circles} + 2 \text{ Yellow Triangles} = 30$$

$$1 \text{ Red Circle} + 4 \text{ Yellow Triangles} = 30$$

$$6 \text{ Yellow Triangles} = 30$$

YOUR TURN

Have a go at questions
1 - 2 on the worksheet



Have a think



If $x = 10$

$$10 + 4 \boxed{}$$

$$(3 \times 10) \boxed{}$$

$$10 \div \frac{x}{2} \boxed{}$$

$$\frac{2x}{20} + 1 \boxed{}$$

Have a think

If $t = 5$ and $g = 6$

$$g - t = \boxed{}$$

$$6 - 5$$

$$\underline{3t} + \underline{4g} + \underline{6g} + \underline{7t} = \boxed{}$$

$$10g + 10t = \boxed{}$$

$$\frac{(4t+5g)}{10} = \boxed{}$$

$$4(g - t) = \boxed{}$$

If $t = 5$ and $g = 6$

$$g - t = 1$$

$$\underline{3t} + \underline{4g} + \underline{6g} + \underline{7t} = 110$$

$$10g + 10t = 110$$

$$20 + 30$$

$$\begin{array}{c} \downarrow \\ \boxed{(4t + 5g)} \\ \hline 1010 \end{array} = \boxed{}$$

$$4(\underline{g - t}) = \boxed{}$$

$$\begin{array}{c} \uparrow \\ 6 - 5 = 1 \end{array}$$

Have a think



If $m = \frac{1}{4}$ and $n = 0.2$

work out the value of $m + 3n$

$$\frac{1}{4} + 3(0.2)$$

$$\frac{1}{4} + 0.6$$

$$0.25 + 0.6 = 0.85$$

Write an algebraic expression that gives a value of 35

$$a = 10$$

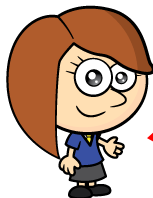


I know! $a + a + a + 5$



$$3a + 5$$

$$4a - 5$$



$$\frac{a}{2} \times 7$$

Have a think



YOUR TURN

Have a go at the rest of
the questions on the
worksheet

