

- 1) Is the value of the letter x the same in both equations? Prove your answer using diagrams and explain your reasoning.



$$3(x + 4) = 30$$

$$3x + 4 = 22$$

- 3) a) Do the operations correctly show how to use inverse operations to find the value of x ? Explain your reasoning.

$$7(x - 2) = 42$$

$$(x - 2) = 6$$

$$x = 4$$

$\div 7$

$- 2$

- b) Complete the inverse operations to find the value of x .

$$8(x + 3) = 96$$

$$(x + 3) = 12$$

$$x = \boxed{}$$

twinkl.co.uk

- 4a. Use the cards below to create three balanced equations where $x = 2.5$. You must use a different operation in each equation.

5x

7

x

$\frac{1}{2}$

2

5.5

2x



PS

- 5a. Choose a value for y and find three possibilities to complete the following equation.

y

+

=

6

6		
y	y	+ ?



PS