Warm up

Review

1) Solve for a:

a) $a + 4 = 10$

$a + 4 - 4 = 10 - 4$

$a = 6$

b) $a - 12 = 7$

$a - 12 + 12 = 7 + 12$

$a = 19$

c) $9 + a = 14$

$9 - 9 + a = 14 - 9$

$a = 5$

2) Solve the expression when x = 5

a) $x + 6$

$5 + 6$

11

b) $10 - x$

$10 - 5$

5

c) $11 + x$

$11 + 5$

16

d) $x - 4$

$5 - 4$

1

Review

What does equality mean??

= the same

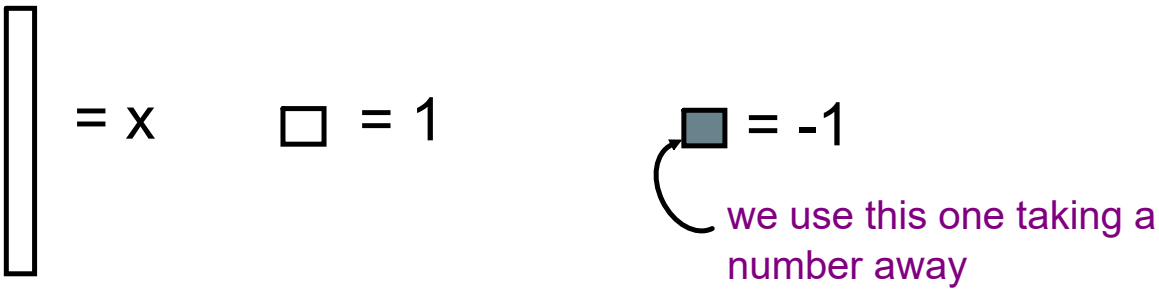
How can we balance this equation:

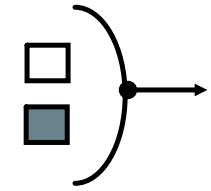
19 - 17 = 0 + 2

2

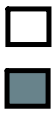
Modelling Algebraic Equations

- We sometimes model algebraic expressions to help solve the question.





These would cancel each other out!

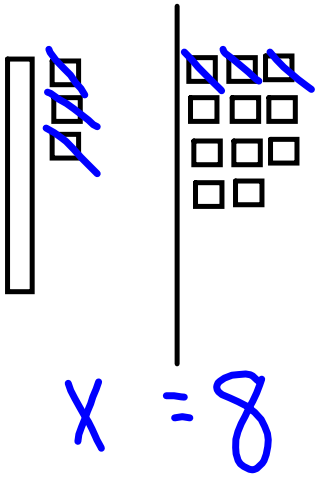


Drawing these together, would be like writing:

1 - 1

Example

$x + 3 = 11$

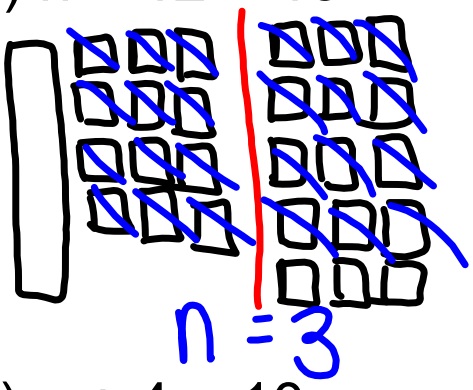


$x = 8$

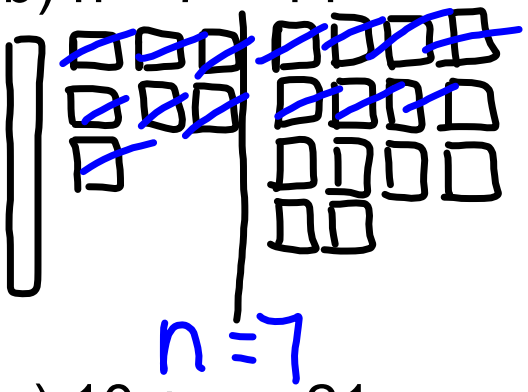
How many cancel out???

Let's model these equations to solve for the unknown variable

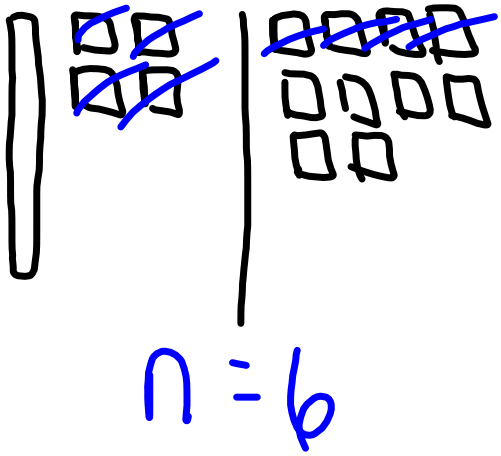
a) n + 12 = 15



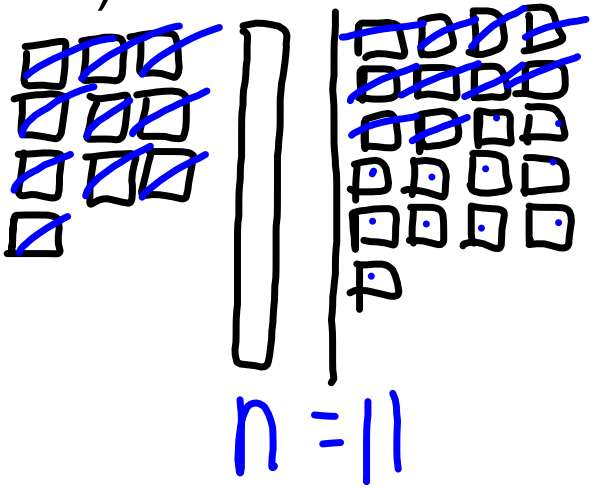
b) n + 7 = 14



c) n + 4 = 10



c) 10 + n = 21



Try on your own - *MODEL*

e) x + 5 = 7

f) c + 13 = 16

g) 17 + m = 20

g) 1 + v = 9

How do we feel about modelling?