

Warm Up Grade 7J



- 1) a) Write an equation for the situation
- b) Solve the equation using tiles. Sketch the tiles you used.
- c) Verify the solution **let $n \equiv$ # of desk of full students**

There are 3 times the number of desk in the classroom than students with 4 extra desk left over. If there are 22 desk in the classroom then how many students are there?

$3n + 4 = 22$

$$3n + 4 = 22$$

$$3n + 4 - 4 = 22 - 4$$

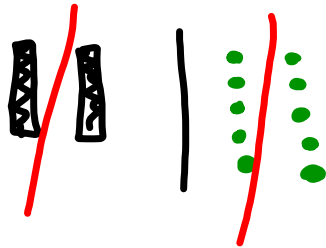
$$3n = 18$$

$$\div 3 \quad \div 3$$

$$n = 6$$

There are 6 desk full of students in the class

$$2x - 3 = 7$$



$$2x - 3 = 7$$

$$2x - 3 + 3 = 7 + 3$$

$$2x = 10$$

$\div 2 \qquad \qquad \div 2$

$$x = 5$$

$$3x - 4 = 11$$

$$\cancel{3x - 4} + 4 = \underbrace{11 + 4}$$

$$\begin{array}{l} 3x = 15 \\ \div 3 \quad \quad \div 3 \end{array}$$

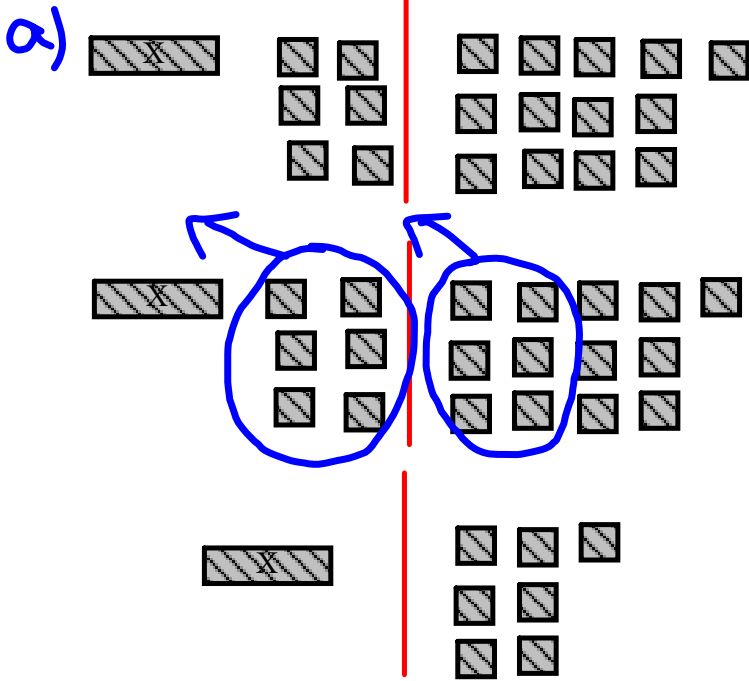
$$\boxed{x = 5}$$

Homework
Solutions #1-3

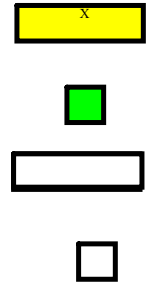
Use tiles to solve each equation.

1. Draw pictures to represent the steps you took to solve each equation.

- a) $x + 6 = 13$
- b) $4 + x = 12$
- c) $11 = x + 7$
- d) $2x = 16$
- e) $18 = 3x$
- f) $4x = 12$



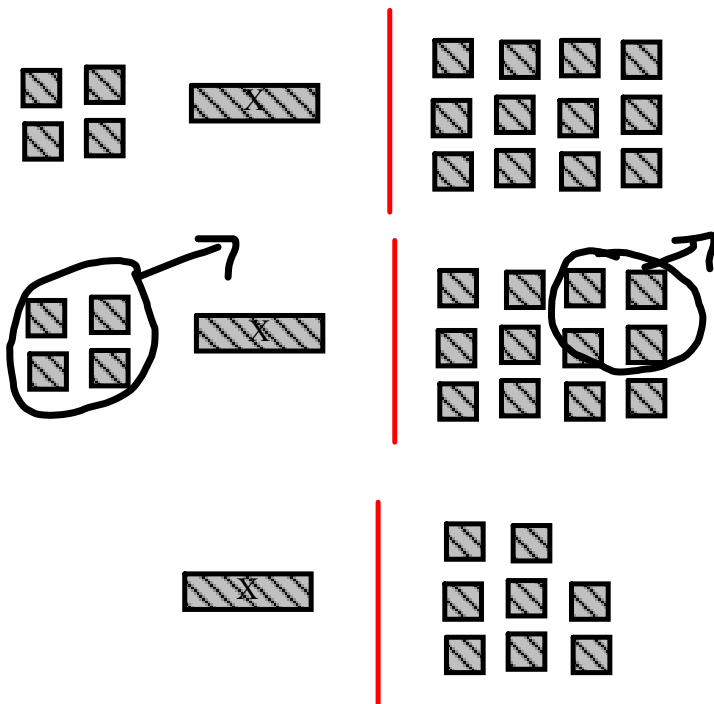
$$x + 6 = 13$$



$$x + 6 - 6 = 13 - 6$$

$$x = 7$$

b) $4 + x = 12$



$$4 + x = 12$$

$$4 + x - 4 = 12 - 4$$

$$x = 8$$

Use tiles to solve each equation.

1. Draw pictures to represent the steps you took to solve each equation.

a) $x + 6 = 13$

b) $4 + x = 12$

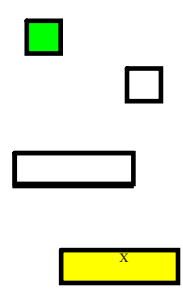
c) $11 = x + 7$

d) $2x = 16$

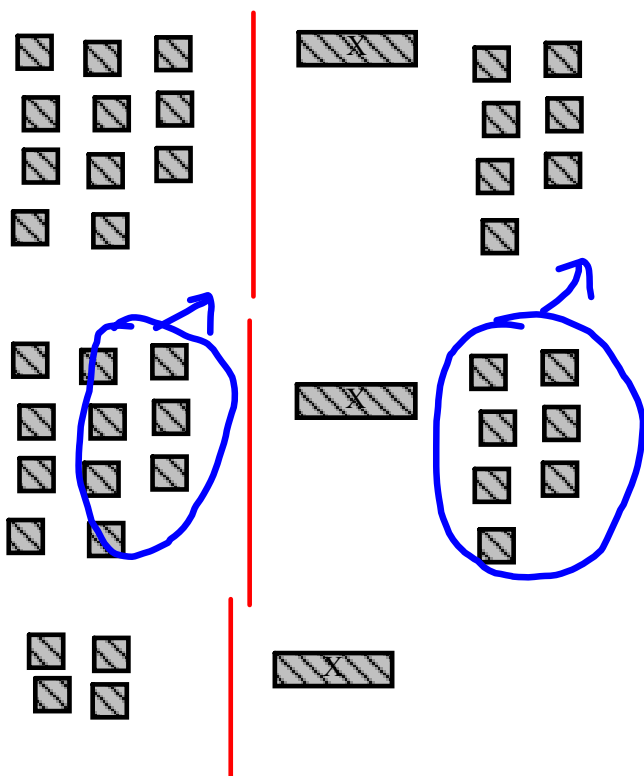
e) $18 = 3x$

f) $4x = 12$

Homework #1-8
Solutions



c) $11 = x + 7$

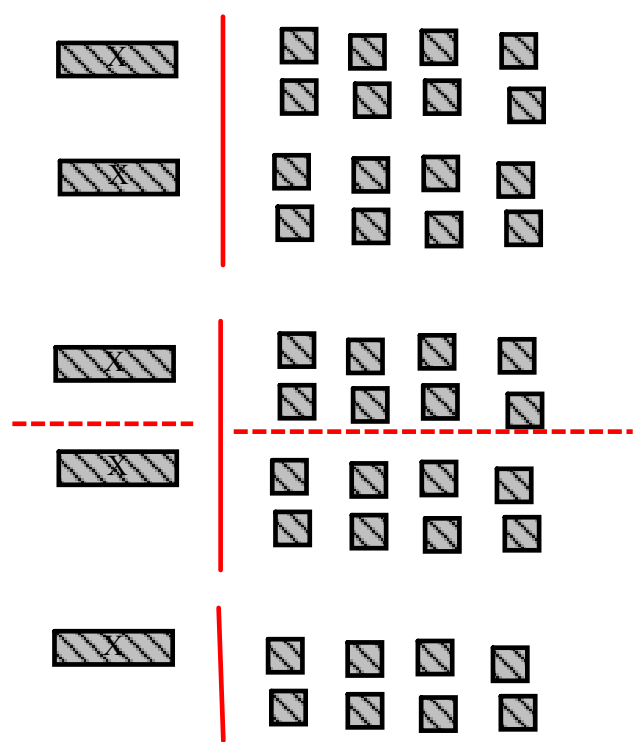


$11 = x + 7$

$11 - 7 = x + 7 - 7$

$x = 4$

d) $2x = 16$



$2x = 16$

$\frac{2x}{2} = \frac{16}{2}$

$x = 8$

Use tiles to solve each equation.

1. Draw pictures to represent the steps you took to solve each equation.

a) $x + 6 = 13$

b) $4 + x = 12$

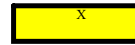
c) $11 = x + 7$

d) $2x = 16$

e) $18 = 3x$

f) $4x = 12$

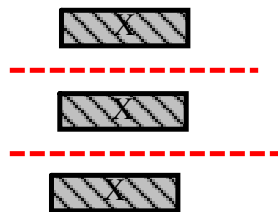
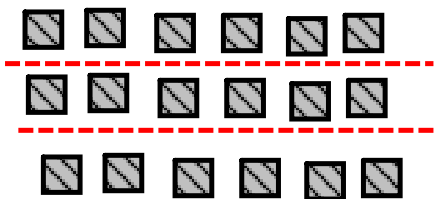
Homework #1-3
Solutions 3



e) $18 = 3x$



$18 = 3x$

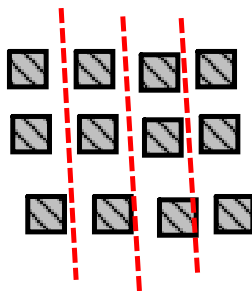
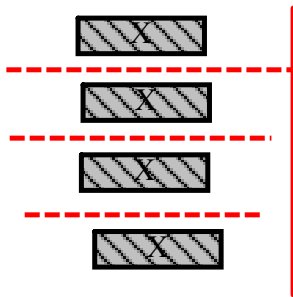


$\frac{18}{3} = \frac{3x}{3}$



$6 = x$

f) $4x = 12$



$4x = 12$

$\frac{4x}{4} = \frac{12}{4}$



$x = 3$

2. Seven more than a number is 12.
 a) Write an equation for this sentence.
 b) Solve the equation. Verify the solution.

Homework # 1-3
 Solutions

$x + 7 = 12$

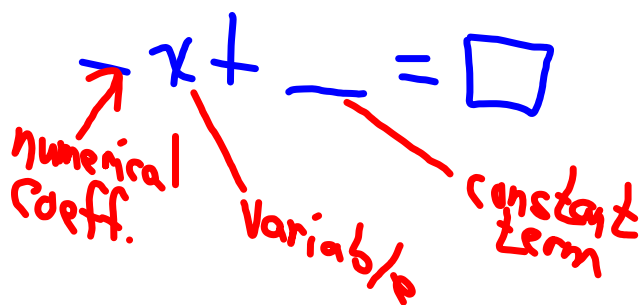
$x + 7 - 7 = 12 - 7$

$x = 5$

Homework # 1-3
Solutions

3. For each equation in question 1, identify a constant term, the numerical coefficient, and the variable.

Equation	Constant term	Numerical Coefficient	Variable
$x + 6 = 13$	6	1	x
$4 + x = 12$	4	1	x
$11 = x + 7$	7	1	x
$2x = 16$	0	2	x
$18 = 3x$	0	3	x
$4x = 12$	0	4	x



Class/Homework

Test Review

pg 41 2

Page 42 #4 #7

Page 45 #1, #2, #5, #6(a,b), #7, #8

Test ~~7/20/22~~