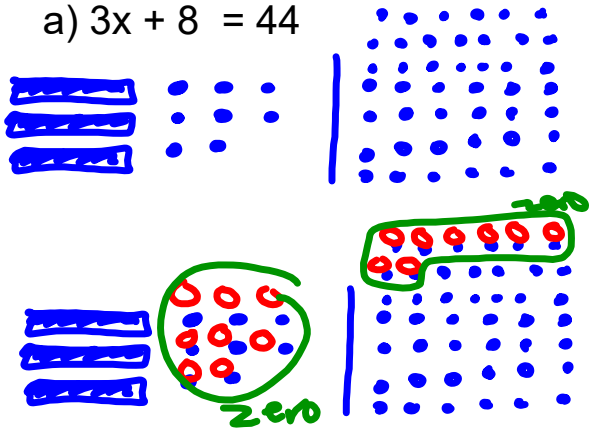
Warm Up Grade 7

1) Solve the equation. Verify the solution (Show your work)

a) 3x + 8 = 44



b) 2x - 4 = 10

$3x + 8 = 44$ (−8 −8)

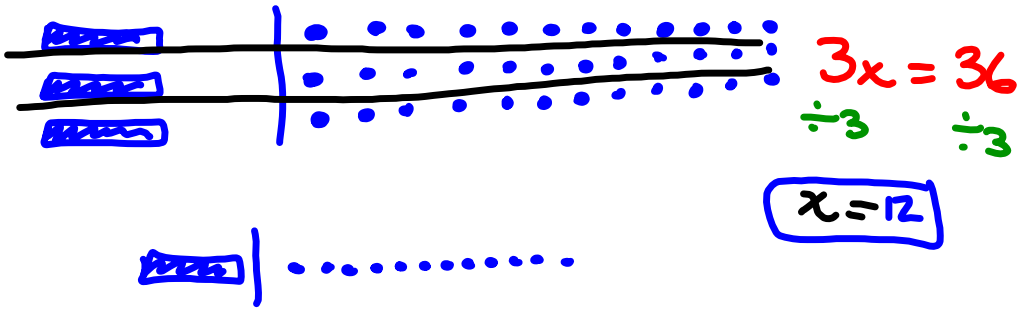
$3x = 36$

$2x - 4 = 10$ (+4 +4)

$2x = 14$

$\div 2 \quad \div 2$

$x = 7$



$3x = 36$

$\div 3 \quad \div 3$

$x = 12$

$5x - 2 = 33$

$+2 \qquad +2$

$5x = 35$

$\div 5 \qquad \div 5$

$x = 7$

$35 = 2 + 3x$

$33 = 3x$

$\div 3 \quad \div 3$

$11 = x$

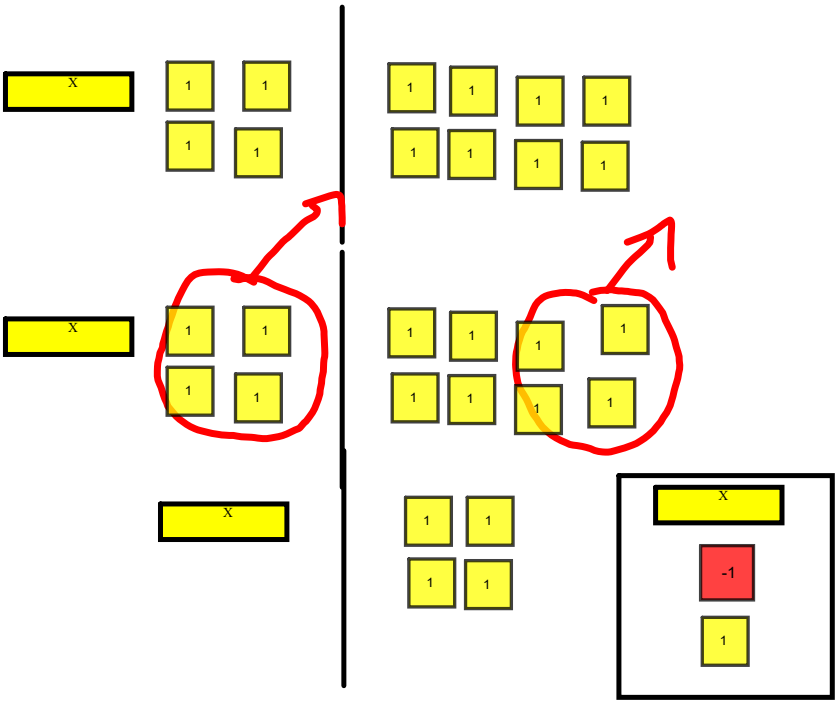
Pg 234

1a)

$x+4=8$

$x+4-4=8-4$

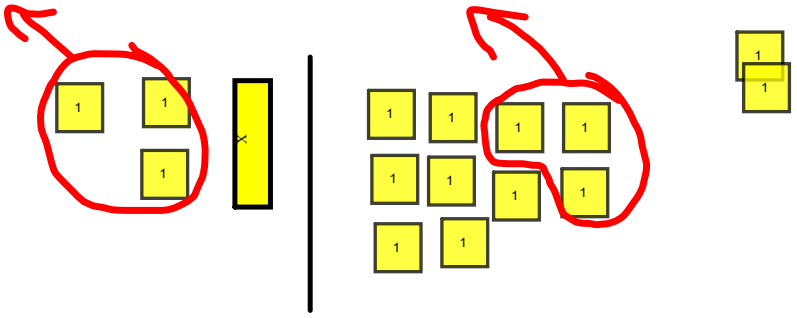
$x=4$



b) $3+x=10$

$3+x-3=10-3$

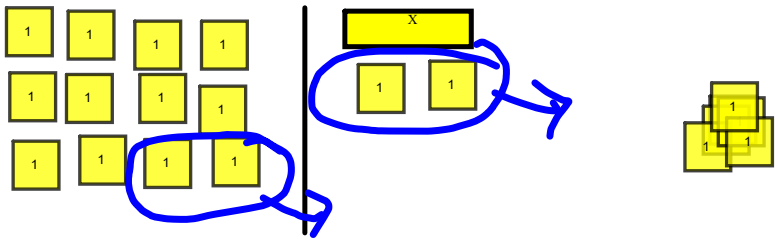
$x=7$



c) $12=x+2$

$12-2=x+2-2$

$10=x$

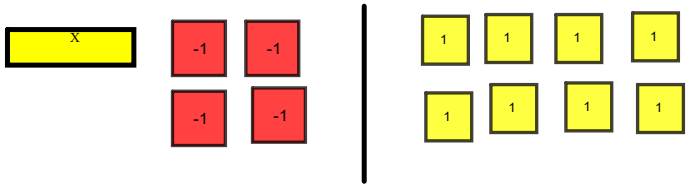


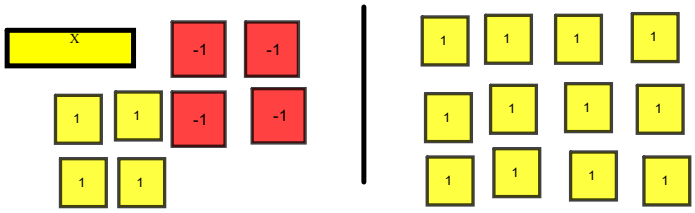
d) $x - 4 = 8$

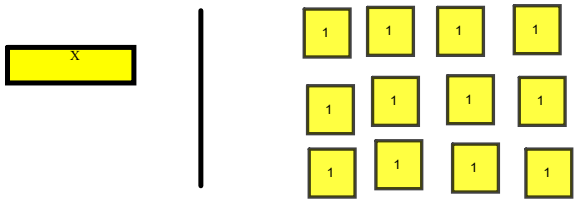
* $x + (-4) = 8$

$x - 4 + 4 = 8 + 4$

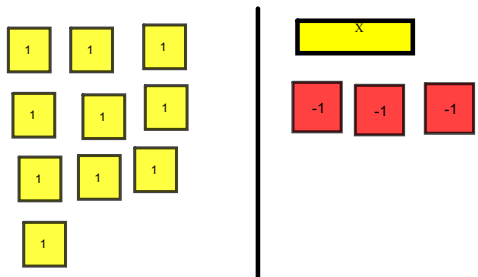
$x = 12$



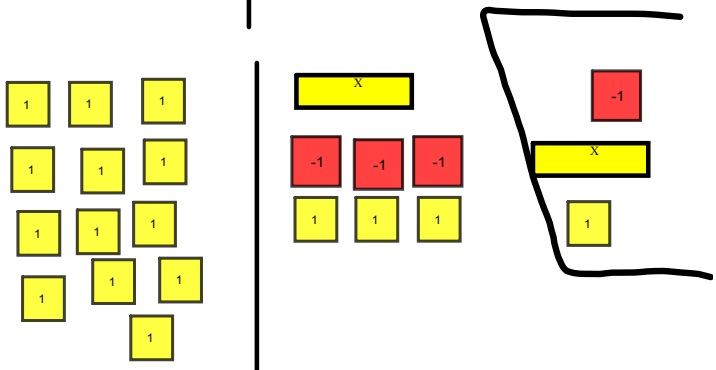




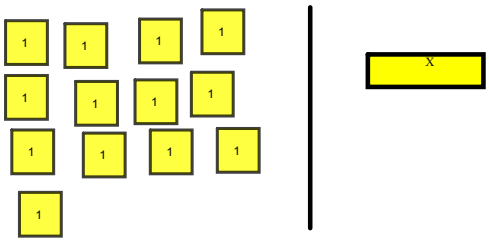
e) $10 = x - 3$



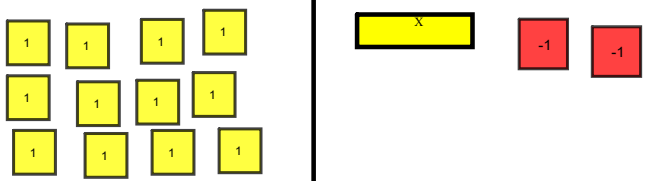
$10 + 3 = x - 3 + 3$



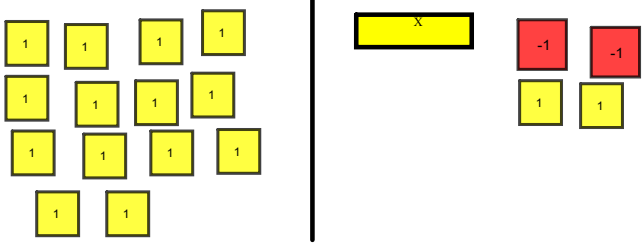
$13 = x$



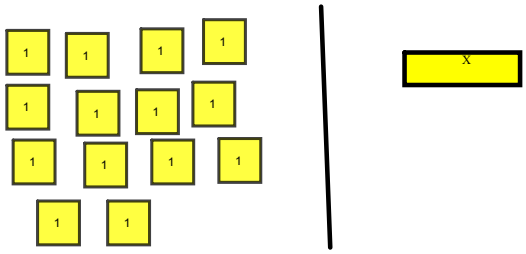
$12 - 2 = x - 2$



$12 + 2 = x - 2 + 2$



$x = 14$



Inspection

2a) $9 = n - 4$

$13 = n$

b) $x + 6 = 8$

$x = 2$

c) $2 = p - 5$

$7 = p$

d) $x - 4 = -9$

$-5 + -4 = -9$

$x = -5$

e) $-8 = s + 6$

$-14 = s$

f) $x - 5 = -2$

$+3 + (-5) = -2$

$x = +3$

3. $x - 4 = 13$

$x - 4 + 4 = 13 + 4$

$x = 17$

4. j = number of friends who watched 1st movie

$j - 6 = 5$

$j - 6 + 6 = 5 + 6$

$j = 11$

11 friends watched the first movie

verify

LS: $j - 6$, $11 - 6$, 5

RS: 5

5

Have students work on # 5,6,7

5 t = original temp

$t - 8 = -3$

$t - 8 + 8 = -3 + 8$

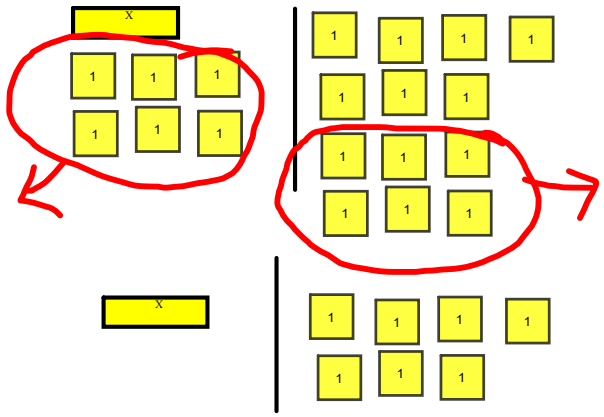
$t = 5$

The original temp was 5°C

6a) $x + 6 = 13$

Tiles

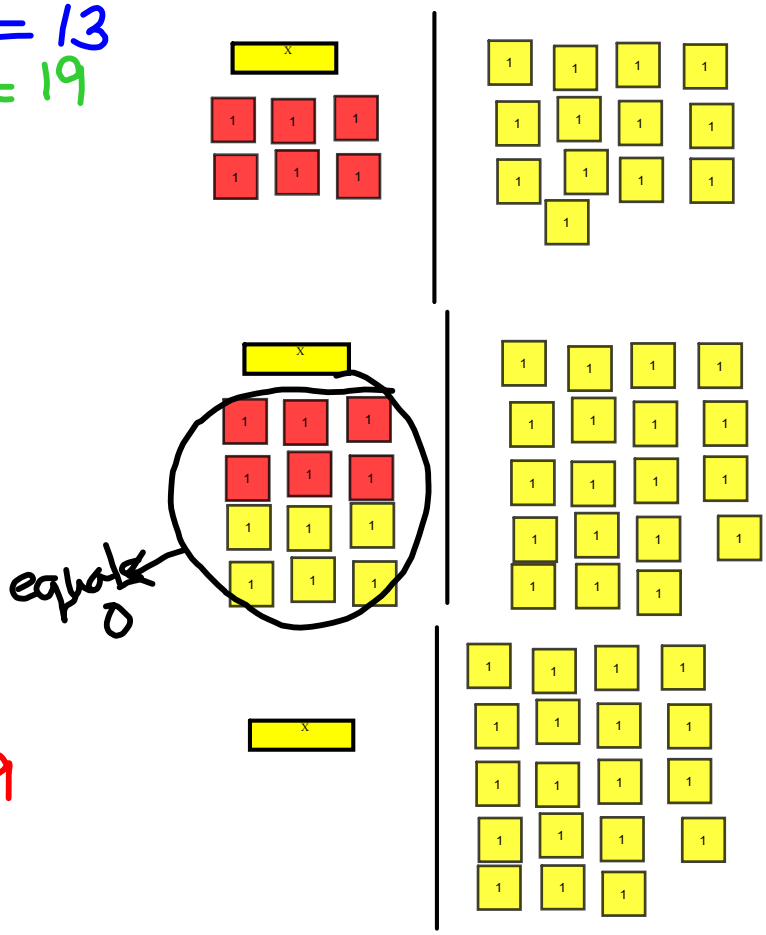
Integers $x = 7$



$x = 7$

b) $n - 6 = 13$

$n = 19$



$x = 19$

235.

a) n = score after 6

$n + 2 = +4$

$n+2-2 = 4-2$

$n = 2$

b) p = score after 12

$p + (-2) = +1$

$p+(-2)+(+2) = +1+2$

$p = +3$

c) r = score after 17

$r + (-4) = -2$

$r+(-4)+(+4) = (-2)+(+4)$

$r = +2$

$r-4 = -2$

$r-4+4 = -2+4$

$r = +2.$

Class / Homework

Work Sheet 3

1 draw a,d, & Use algebra for b,c,f
#2
#3
#4
#5

4) x = # student who stayed for 2nd show

$x + 11 = 27$

Test in 5 or 6 more classes

Attachments

Extra Practice 3 Solving Equations by integers pdf.pdf