

1) $(-3) + (+2) = -1$

2) $90 - 13 = 77$

3) $\frac{1}{2}$ of 28 = 14

4) $(-2) - (+4) = -6$

5) $56 \div 8 = 7$

6) $22 \times 0.5 = 11$

7) $141 \times 2 = 282$

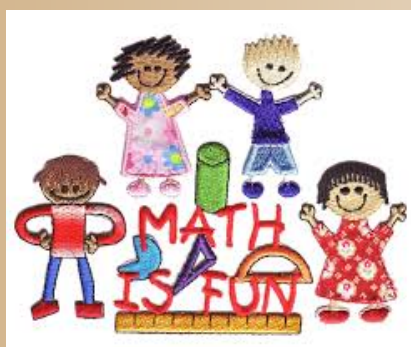
8) What number is divisible by 3? a) 204 b) 103 c) 91

9) What number is divisible by 6? a) ~~1005~~ b) ~~316~~ c) ~~624~~

10) $\frac{1}{3}$ of 6 $6 \div 3 = 2$

2 4 6

✓
6 $\frac{1}{4}$ $\frac{1}{10}$ 



Review, review, review!

Page 79, 80 and 81

9c, d 10-16, 18

Practise Test p. 82

k, b, e, f 2 a, b, d, f, 3, 5

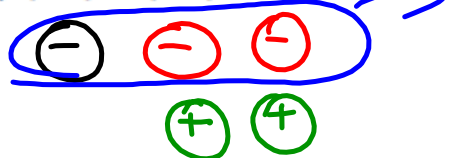
8. Use tiles to add or subtract.

a) $(-1) + (+3)$

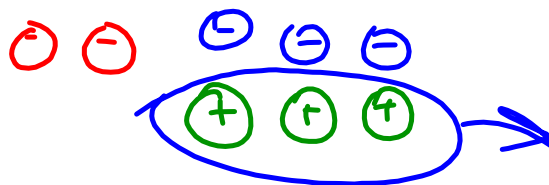
b) $(+3) + (-4)$

c) $(-2) - (+3)$

d) $(-1) - (-3) = +2$



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



2.3
2.5

9. Use a number line to add or subtract.

a) $(-1) + (+3)$ b) $(+6) + (-4)$

c) $(-4) - (+6)$ d) $(-5) - (-3)$

$(-4) + (-6)$

10. When you add two positive integers, their sum is always a positive integer.

* When you subtract two positive integers, is their difference always a positive integer? Explain.

No,

$(+4) - (+8) = -4$

$(+4) + (-8) = -4$

You ALWAYS + the opposite subtract.

11. a) What temperature is
7°C warmer than 2°C?
b) What temperature is
5°C warmer than -5°C?
c) What temperature is
8°C cooler than 2°C?
d) What temperature is
4°C cooler than -3°C?

$$(+7) - (+2)$$

$$(+7) + (-2) = +5$$



2.4 12. Use tiles or a number line to subtract.

2.5

Write the subtraction equations.

a) $(+4) - (+1)$ b) $(+5) - (-1)$

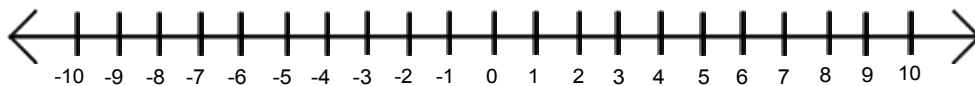
c) $(+2) - (-2)$ d) $(-4) - (+1)$

e) $(-6) - (-2)$ f) $(-10) - (-5)$

g) $(-4) - (-2)$ h) $(-5) - (-10)$

$$(+4) - (-1)$$

$$(+4) + (+1)$$

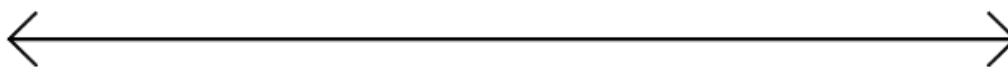


14. Use tiles or a number line.

Find the difference between:

a) a temperature of $+5^{\circ}\text{C}$
and -7°C

b) an elevation of -100 m
and $+50\text{ m}$



15. What is the difference in heights?

How can you subtract to find out?

- a) A water level of 2 m below sea level and a water level of 7 m above sea level
- b) A balloon 25 m above ground and a balloon 11 m above ground

Practice Test

1. Evaluate. Use coloured tiles.

Record your work.

a) $(+5) + (-8)$ b) $(-3) - (+7)$ c) $(-9) + (-1)$
d) $(-4) + (+10)$ e) $(-6) - (-2)$ f) $(+12) - (-11)$

2. Evaluate. Use a number line.

Record your work.

a) $(+9) + (-1)$ b) $(-4) - (+11)$ c) $(-8) + (-3)$
d) $(+13) - (+6)$ e) $(-7) + (+9)$ f) $(-1) - (-5)$

3. Without calculating the sum, how can you tell if the sum of two integers will be:

a) zero? b) negative? c) positive?

Include examples in your explanations.

counters
b) $(-3) - (+7)$

Let one white tile represent $+1$ and one black tile represent -1 .

a) Shade the tiles in the diagrams to model:

i) a positive integer

ii) a negative integer

i)

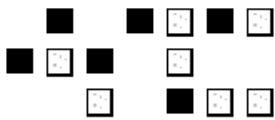


ii)



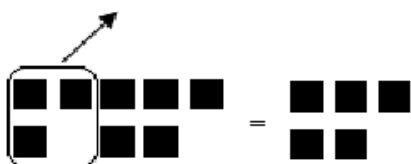
b) Name the integers.

Let one white tile represent +1 and one black tile represent -1.
 Write the integer modelled by this set of tiles.



Let one black tile represent -1 .

Write the subtraction equation modelled by this diagram.



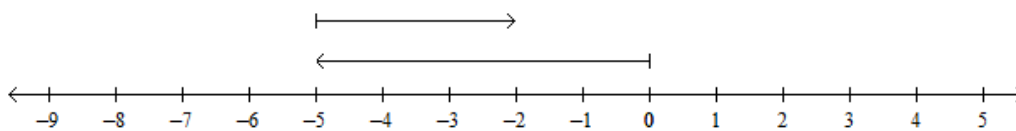
a. $(+8) - (+3) = +5$

b. $(-8) - (-3) = -5$

c. $(-8) - (-3) = +5$

d. $(+8) - (+3) = -5$

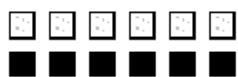
Write the addition equation modelled by the number line.



Let one white tile represent $+1$ and one black tile represent -1 .
Write the integer modelled by this set of tiles.

a. $+5$ b. -2 c. $+12$ d. $+2$

Let one white tile represent $+1$ and one black tile represent -1 .
What is the least number of tiles that you can remove to model -4 ?



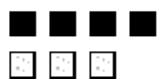
a. 4 white

b. 4 black

c. 2 white

d. 2 black

Let one white tile represent $+1$ and one black tile represent -1 .
What sum does this set of tiles model? Write the addition equation.



- a. $(-4) + (+3) = -1$
b. $(-3) + (+4) = +1$

- c. $(+4) + (+3) = +7$
d. $(+3) + (+4) = +7$

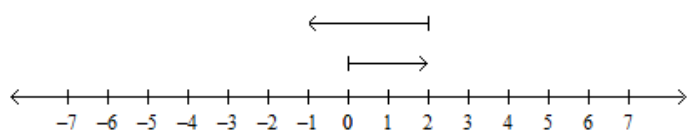
Let one white tile represent $+1$ and one black tile represent -1 .
What sum does this set of tiles model? Write the addition equation.



a. $(-6) + (+2) = -4$
b. $(+6) + (+2) = +8$

c. $(+6) + (-2) = +4$
d. $(+6) + (+2) = +6$

Write an addition equation modelled by the number line.



a. $(+2) + (+3) = +5$

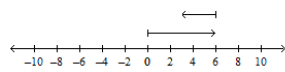
b. $(+2) + (-3) = +1$

c. $(+2) + (-3) = -1$

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

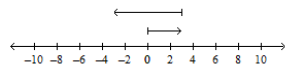
Use a number line to add: $(+6) + (-3)$. Write the addition equation.

a.



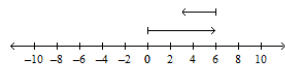
$(+6) + (-3) = +3$

b.



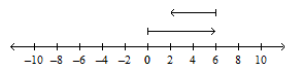
$(+6) + (-3) = -3$

c.



$(+6) + (-3) = +9$

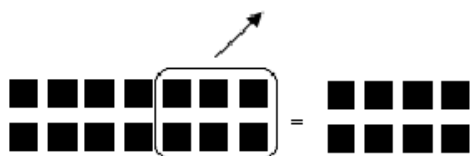
d.



$(+6) + (-3) = +2$

Let one black tile represent -1 .

Write the subtraction equation modelled by this diagram.



a. $(-14) - (-6) = -8$

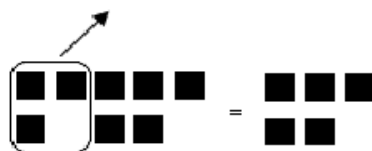
b. $(+14) - (+6) = +8$

c. $(-14) - (+6) = -8$

d. $(-14) - (-6) = +8$

Let one black tile represent -1 .

Write the subtraction equation modelled by this diagram.



a. $(+8) - (+3) = +5$

b. $(-8) - (-3) = -5$

c. $(-8) - (-3) = +5$

d. $(+8) - (+3) = -5$

Use tiles to subtract.

$$(+5) - (+7)$$

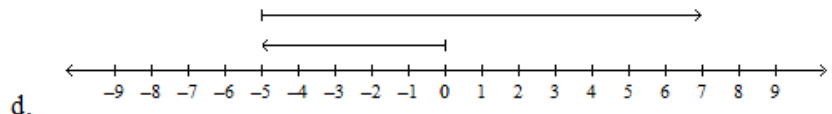
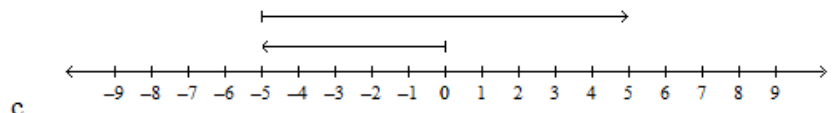
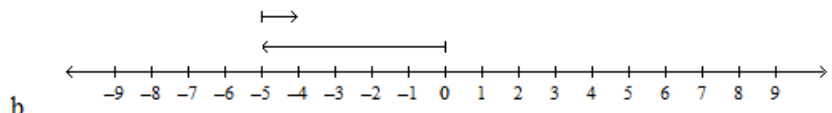
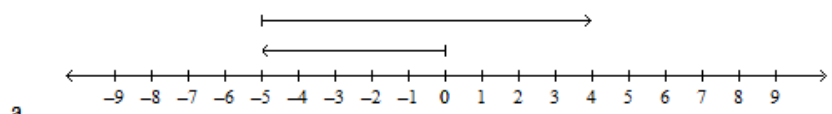
- a. +12 b. +2 c. -2 d. -12

Use tiles to subtract.

$$(+8) - (+12)$$

- a. +4 b. -4 c. +20 d. -20

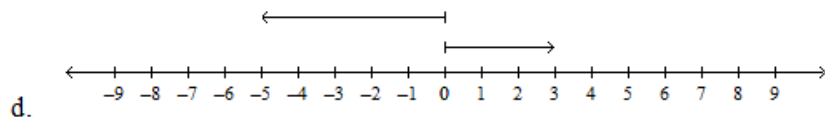
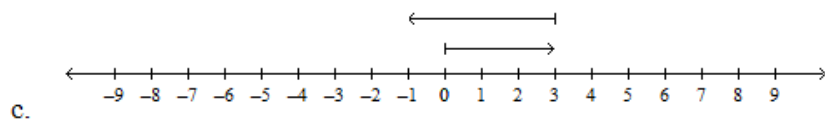
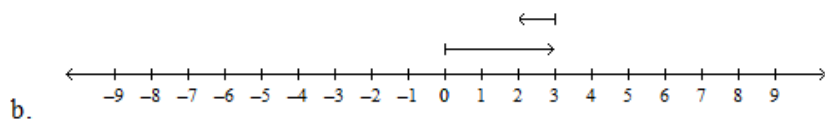
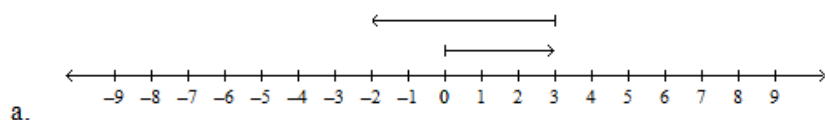
$(-5) - (-9)$



Use a number line to subtract.

Use a number line to subtract.

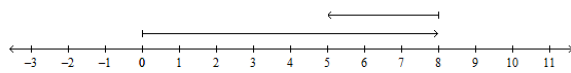
$(+3) - (+5)$



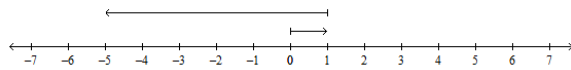
Let one white tile represent +1 and one black tile represent -1.
 How many zero pairs are in each diagram?



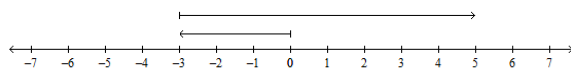
Write the addition equation modelled by the number line.



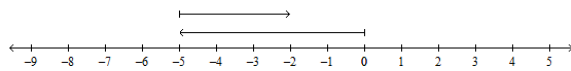
Write the addition equation modelled by the number line.



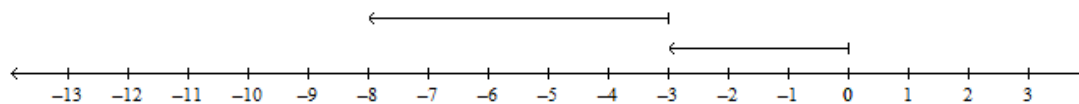
Write the addition equation modelled by the number line.



Write the addition equation modelled by the number line.



Write the subtraction equation modelled by the number line.



5. The lowest temperature possible is approximately -273°C .
The temperature at which water boils is 100°C .
What is the difference in these temperatures?
6. Place 3 integers in a row as shown.
 $(+6)$ $(+4)$ (-3)
How many different answers can you get by putting addition
and/or subtraction signs between the integers?
How do you know you have found all possible answers?
For example: $(+6) + (+4) - (-3)$
What if there were 4 integers in a row?

