

Lesson 2.1: Representing Integers

1. Write the integer modelled by each set of tiles.

a) $\boxed{R} \boxed{R} \boxed{R} \boxed{R}$

b) $\boxed{Y} \boxed{Y} \boxed{Y} \boxed{Y} \boxed{Y} \boxed{Y}$

c) $\boxed{Y} \boxed{Y} \boxed{Y} \boxed{Y}$

d) $\boxed{Y} \boxed{Y} \boxed{Y}$

$\boxed{R} \boxed{R} \boxed{R}$

$\boxed{R} \boxed{R} \boxed{R} \boxed{R} \boxed{R} \boxed{R} \boxed{R} \boxed{R}$

e) $\boxed{Y} \boxed{Y} \boxed{Y} \boxed{Y}$

f) $\boxed{Y} \boxed{Y} \boxed{Y} \boxed{Y} \boxed{Y}$

$\boxed{R} \boxed{R} \boxed{R} \boxed{R}$

$\boxed{R} \boxed{R}$

2. Use coloured tiles. Draw two different models for each integer.

a) -7

b) $+8$

c) -2

d) $+6$

3. Which integer is modelled by each set of tiles?

a) 5 yellow tiles and 13 red tiles

b) 28 yellow tiles and 24 red tiles

c) 15 yellow tiles and 8 red tiles

d) 37 yellow tiles and 41 red tiles

4. a) You have 3 yellow tiles and want to model -4 .

How many red tiles do you need?

b) You have 6 red tiles and want to model $+7$.

How many yellow tiles do you need?

c) You have 5 yellow tiles and want to model $+2$.

How many red tiles do you need?

d) You have 8 red tiles and want to model -5 .

How many yellow tiles do you need?

Extra Practice 2

Lesson 2.2: Adding Integers with Tiles

Use coloured tiles.

1. Find each sum.

a) $(+6) + (-12)$

b) $(-10) + (-4)$

c) $(-8) + (-9)$

d) $(+11) + (+7)$

e) $(-13) + (+5)$

f) $(+12) + (-6)$

2. Represent each sentence with integers, then find each sum.

What does the sum represent?

a) The elevation of the base of the building is 345 m above sea level.
The building is 50 m high.

b) The elevation of the base of the building is 75 m below sea level.
The building is 15 m high.

c) The elevation of the top of the trench is 237 m below sea level.
The trench is 10 m deep.

d) The elevation of the entrance to the mine is 1500 m above sea level.
The mine is 450 m deep.

3. These are the scores on each hole of mini-golf. Find the total score.

Score	-2	+1	0	+3	-1	+2	-1	0	-2
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4. Complete each magic square.

a)

		+3
	+2	
+1		-1

b)

-7			+8
	+6	-5	-3
	-1	+2	
	+3		+1