

2.4


Subtracting Integers with Tiles




Quick Review

- To model subtraction using tiles, begin by modelling the first number. Then, take away tiles that model the number to be subtracted. If there are not enough tiles to take away, add zero pairs.

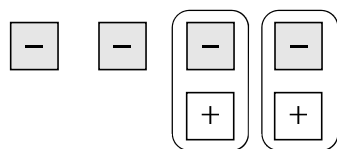
Use tiles to subtract. $(-2) - (-4)$


Model -2 . 


There are not enough tiles to take away -4 .

You need more  tiles.

Add 2 zero pairs.

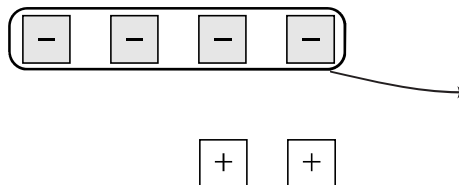


Now take away 4  tiles.

There are 2  tiles left.


These model $+2$, so we write:

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




Practice

1. Use tiles to subtract $(+2) - (+5)$.

Start with 2  tiles.



Can you take away $+5$ from $+2$? _____

Add zero pairs until you can take away 5  tiles.

So, $(+2) - (+5) =$ _____

2. Use tiles to subtract $(-3) - (+4)$.

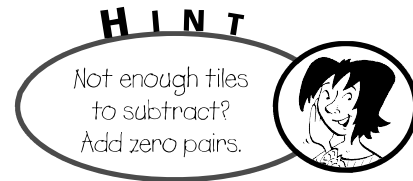
Model -3 with $\boxed{-}$ tiles.

Can you take away $+4$ from -3 ? _____

Add zero pairs until you can take away 4 $\boxed{+}$ tiles.

So, $(-3) - (+4) =$ _____

3. Draw tiles to represent each difference.
Then complete the subtraction equation.



a) $(+4) - (+3) =$ _____



b) $(-2) - (-5) =$ _____



c) $(+1) - (+6) =$ _____

d) $(+5) - (+3) =$ _____

4. Subtract.

a) $(-7) - (-5) =$ _____

b) $(+3) - (+8) =$ _____

c) $(+6) - (-4) =$ _____

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

5. Subtract. Then complete the subtraction equation.

C. $(+3) - (+5) =$ _____

E. $(-2) - (-1) =$ _____

L. $(+3) - (-1) =$ _____

I. $(+3) - (+3) =$ _____

H. $(-2) - (+1) =$ _____

T. $(+3) - (-3) =$ _____

O. $(+3) - (+1) =$ _____

N. $(-2) - (+3) =$ _____

R. $(+3) - (-5) =$ _____

Why is it always warm in Brazil and Peru? Fill in the corresponding letters to find out.

They are _____ !
 $\quad \quad -5 \quad +2 \quad +6 \quad -2 \quad -3 \quad 0 \quad +4 \quad -1$