

2.2


Adding Integers with Tiles





Quick Review

You can add integers by modelling with tiles.

- Add: $(-2) + (-4)$


$-2:$ 


$-4:$ 

There are 6  tiles.
 They model -6 .

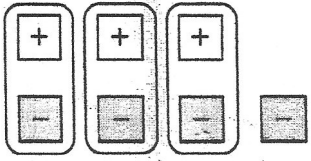
So, $(-2) + (-4) = -6$


- Add: $(+3) + (-4)$

$+3:$ 

$-4:$ 

Circle the zero pairs. Count the tiles that are left.



There are 3 zero pairs.
 There is 1  tile left.
 It models -1 .

So, $(+3) + (-4) = -1$

Practice

1. Use tiles representing $+1$ and tiles representing -1 to add $(+4) + (-6)$.

Circle zero pairs.

What tiles are left? _____

So, $(+4) + (-6) =$ _____

2. Use tiles to add $(-5) + (+3)$.

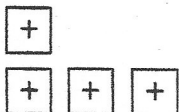
Circle zero pairs.

What tiles are left? _____

$(-5) + (+3) = \underline{\hspace{2cm}}$

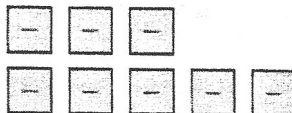
3. What sum does each set of tiles model?

a)



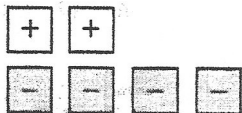
$(+1) + (+3) = \underline{\hspace{2cm}}$

b)



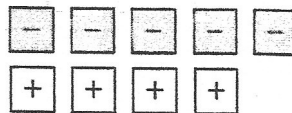
$(-3) + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

c)



$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

d)



$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

4. Draw tiles to represent each sum. Complete the addition equation.

a) $(+3) + (+4) = \underline{\hspace{2cm}}$

b) $(-2) + (+5) = \underline{\hspace{2cm}}$

c) $(-7) + (+2) = \underline{\hspace{2cm}}$

d) $(-3) + (+4) = \underline{\hspace{2cm}}$

5. A mine elevator was at level -5 (5 levels below ground).

It went up 3 levels.

What level is it at now? _____

HINT

Think: Shall I represent a rise in the elevator position by a positive integer or a negative integer?

