

Warm-Up From Grade 5 & Yesterday

Write the following numbers in expanded form.



A) 26

$$20 + 6$$

Word form
twenty-six

B) 4 659

$$4000 + 600 + 50 + 9$$

four thousand six
hundred fifty-nine

C) 123 402

$$100000 + 20000 + 3000 + 400 + 2$$

, one hundred twenty-three thousand four hundred two

Write the integer for

a) I deposited \$100 in my account $(+100)$ b) I owe Fred \$45 (-45) c) I have to go back 11 steps (-11)

Circle the key word that indicates the sign
then write the correct integer in the box

Let's go over the HW Solutions

a loss of \$10.00 = (-10)

2 metres below sea level = (-2)m

4 units to the right = (+4)

10 steps forward = (+10)

spending \$4.00 = (-4)

2 levels above ground = (+2)

Class/Homework
if Needed

Let's go over the HW Solutions

Circle the key word that indicates the sign then write the correct integer.

Integer Scenario Questions

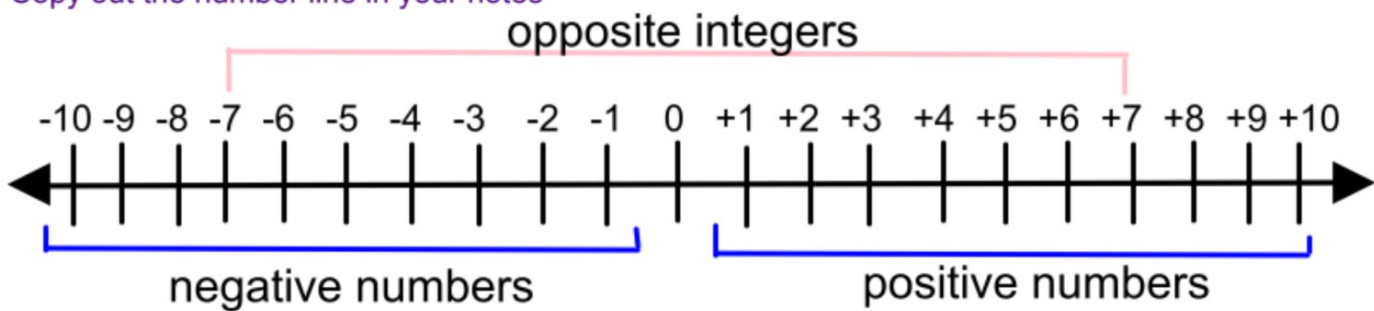
- 1) Sarah deposited \$20 into her bank account. What integer represents this? (+20)
- 2) The temperature in Winnipeg dropped 12 degrees below zero. What integer represents this temperature change? (-12)
- 3) A submarine is 250 meters below sea level. What integer represents its elevation? (-250 m)
- 4) Liam borrowed \$15 from his friend. What integer represents the money he owes? (-15)
- 5) A football player gained 8 yards on a play. What integer represents this gain? (+8)
- 6) Emma withdrew \$30 from her bank account. What integer represents this transaction? (-30)
- 7) The temperature rose 7 degrees above zero. What integer represents this change? (+7)
- 8) In a video game, Alex lost 50 points after making a mistake. What integer represents this score change? (-50)
- 9) A hiker is standing 400 meters above sea level. What integer represents this elevation? (+400 m)
- 10) A company had a profit of \$120 last week. What integer represents this profit? (+120)

You try (Copy it out then answer)

Write the correct integer for the scenario

1. 5° C under zero (-5°C)
2. 10 m above sea level $(+10\text{m})$
3. 18 s before dinner (-18s)
4. I fell into a 7m hole (-7m)
5. My brother is 6 years older than me $(+6)$
6. I lost two pair of shoes (-2 pairs) (-4 shoes)
7. I found 6 dollar in my pocket! $(+\$6)$

Copy out the number line in your notes



Opposite integers same number with different signs.

They have an equal distance from zero

Example: +7 and -7 are opposites

What is the opposite of each **integer** listed below?
(we will do together)

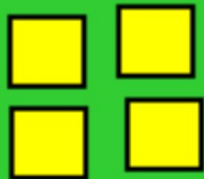
		<i>Opposite</i>	
$(+12)$	$\longrightarrow$	-12	$\longrightarrow$ Move boxes to check your answers
$+48$	_____	-48	
-24	_____	$+24$	
$+98$	_____	-98	
-63	_____	$+63$	

Use this legend/key to do the activities on the next couple of pages.

with a pencil

 $+1$
(A yellow tile) represents positive one ----- ● shaded
● $\Rightarrow$ $\oplus$

 -1
(A red tile) represents negative one ----- ○ unshaded
○ $\Rightarrow$ $-$

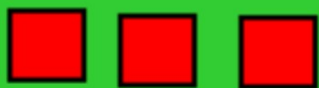


a) This represents $(+4)$



b) This represents (-6)

What integers do the following tiles represent?



(+3)



(-1)



(+2)



Move the boxes to check your answers.

Draw the tiles to represent each of the following integers:

a) -3



b) +2



c) -1



d) +5

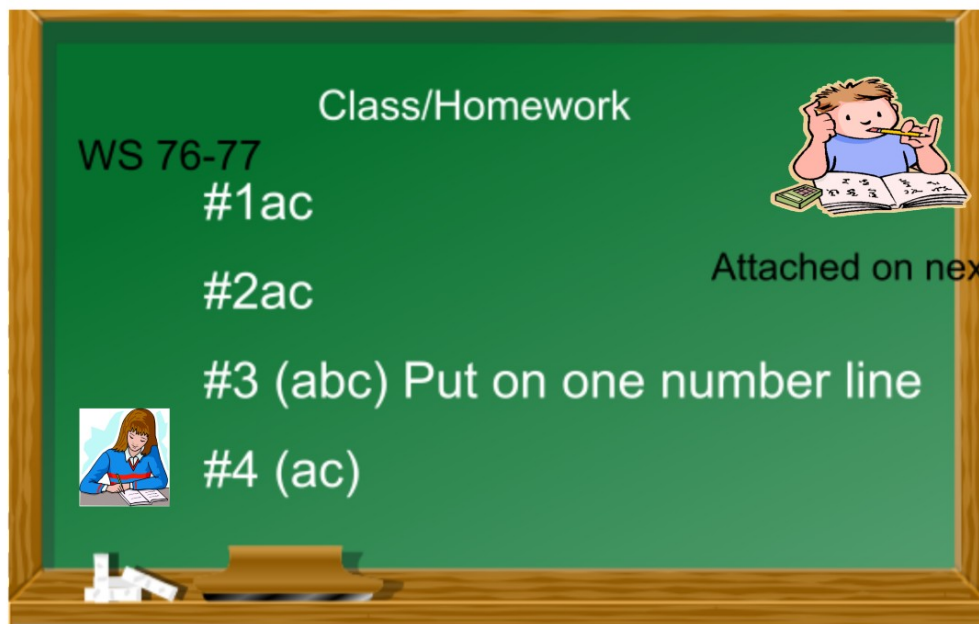


Use these infinite clone tiles



Move the boxes to check your answers.





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



2. Use yellow or red tiles to model each integer. Draw the tiles.

- | | | | |
|--------|-------|-------|-------|
| a) -6 | b) +8 | c) +5 | d) -2 |
| e) +11 | f) -4 | g) +2 | h) -9 |

3. Mark these integers on a number line.

Tell how you knew where to place each integer.

- | | | | |
|-------|-------|-------|-------|
| a) +1 | b) -5 | c) -2 | d) +9 |
|-------|-------|-------|-------|

4. Write the opposite of each integer. a, b, c, d

Mark each pair of integers on a number line.

- | | | | |
|-------|-------|--------|--------|
| a) +3 | b) -1 | c) -19 | d) +10 |
|-------|-------|--------|--------|