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*Stuck? Scan
for the anchor
chart*

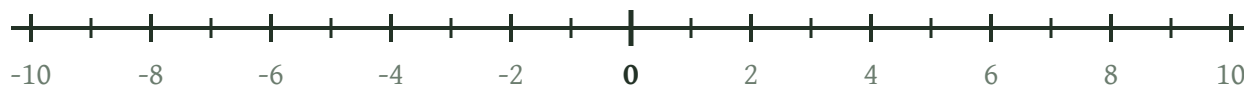
Adding and Subtracting on the Number Line

Name _____ Date _____ Correct _____ / 10

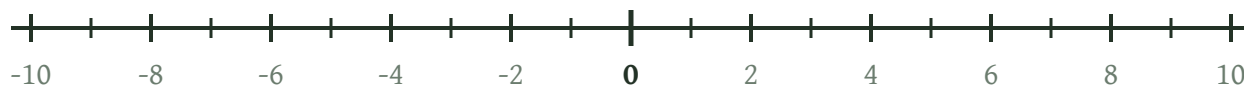
1

Draw the Jump - start at the first number. The sign gives the direction, the number gives the distance. Draw your arrow above the line.

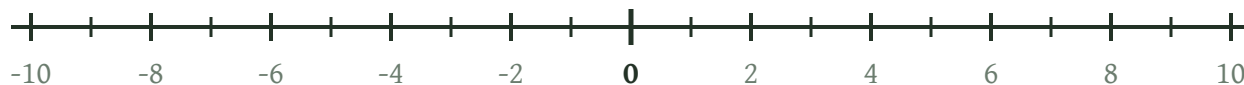
1. $-3 + 7 =$ _____



2. $-2 + (-5) =$ _____



3. $4 + (-9) =$ _____



4. $-6 + 0 =$ _____



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Adding and Subtracting on the Number Line

2

Rewrite the Subtraction - subtracting a number is adding its opposite: $p - q = p + (-q)$. Rewrite first, then jump in the space below.

5. $3 - 8$



$3 + (\quad) = \quad$

6. $-4 - (-6)$



$-4 + (\quad) = \quad$

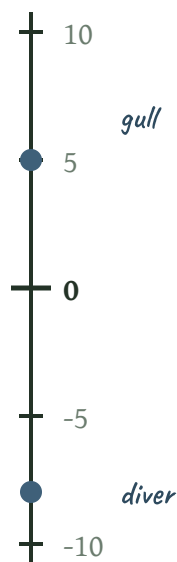
7. $-5 - 2$



$-5 + (\quad) = \quad$

3

Change or Distance? - change carries a sign. Distance never does.



A diver hangs at **-8 m**. A gull flies at **5 m**.

8. The gull dives straight down to the diver. What is the signed change in its height?



change = m

9. How far apart are they?
Write it with absolute value bars first.

10. At dawn the temperature was **-4°F**. By noon it read **9°F**. What was the change in temperature, with its sign?





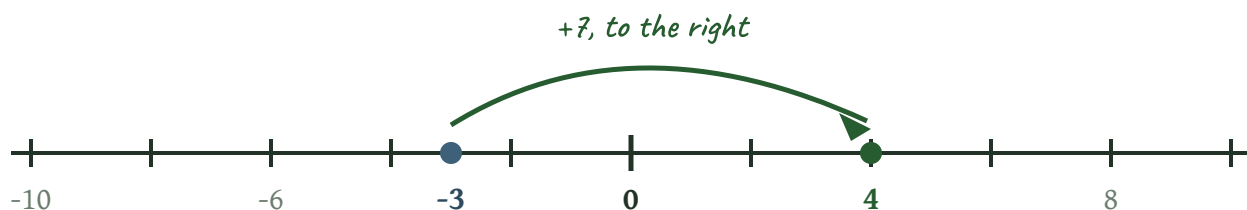
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Answer Key

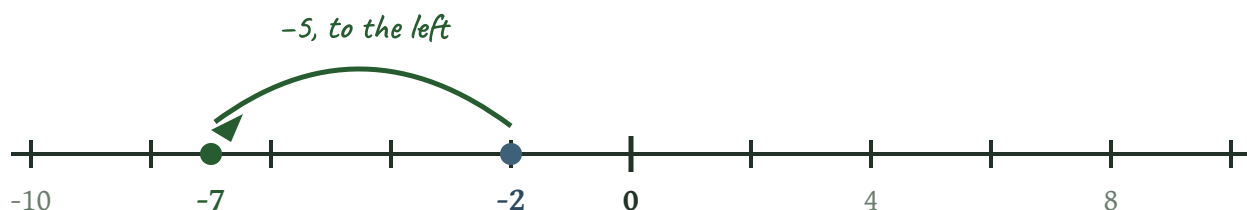
Adding and Subtracting on the Number Line

1 Draw the Jump

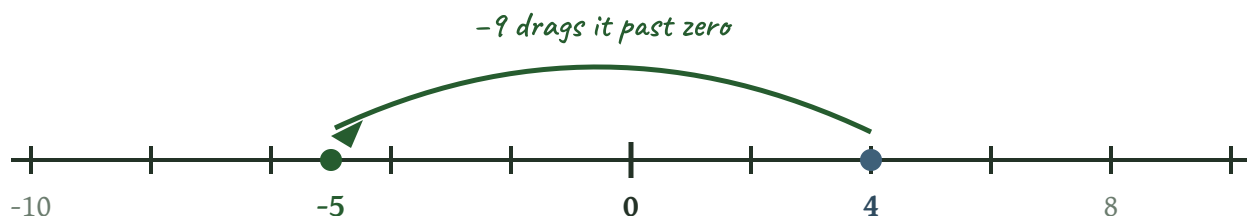
1. $-3 + 7 =$ 4



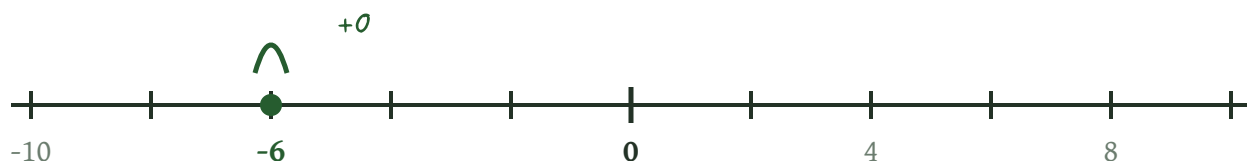
2. $-2 + (-5) =$ -7



3. $4 + (-9) =$ -5 *not +5: the bigger size wins the sign*



4. $-6 + 0 =$ -6 *a jump of zero goes nowhere*





2 Rewrite the Subtraction

5. $3 - 8$

*start at 3, jump 8 left,
past zero to -5*

$3 + (\underline{-8}) = \underline{-5}$

6. $-4 - (-6)$

*the opposite of -6 is +6:
jump 6 right, land at 2*

$-4 + (\underline{+6}) = \underline{2}$

7. $-5 - 2$

*start at -5,
jump 2 more to the left*

$-5 + (\underline{-2}) = \underline{-7}$

3 Change or Distance?

A diver hangs at **-8 m**. A gull flies at **5 m**.

8. change = $\underline{-13}$ m

from 5 down to -8 is $-8 - 5 = -13$. Down means negative.

9. $\underline{|-8 - 5| = |-13|} = \underline{13}$ m

same 13, but distance drops the sign. A gap is never negative.

10. Dawn -4°F , noon 9°F .

$9 - (-4) = 9 + 4 = +13.$

It crossed zero, so both pieces count:

4 up to zero, then 9 more.

change = $\underline{+13}$ $^{\circ}\text{F}$