

Topic: Adding and subtracting signed numbers**Question:** Simplify the expression.

$$-1 + 8$$

Answer choices:

A -7

B -9

C 7

D 9



Solution: C

We can rewrite the expression and solve it.

$$-1 + 8$$

$$8 - 1$$

$$7$$

We can also find the answer on the number line. Given $-1 + 8$, we'd start at -1 on the number line, which is one unit to the left of 0. Then, because we're asked to add 8 to -1 , we'll move eight units to the right of -1 , ending up at 7.



Topic: Adding and subtracting signed numbers**Question:** Which equation is the same?

$$3 - 3 = 0$$

Answer choices:

A $3 + 3 = 0$

B $3 - (-3) = 0$

C $3 + (-3) = 0$

D $3 + [-(-3)] = 0$



Solution: C

Subtraction is the same as addition of a negative.

$$3 + (-3) = 0$$

$$3 - 3 = 0$$

$$0 = 0$$



Topic: Adding and subtracting signed numbers**Question:** Which of these is true?**Answer choices:**

A $3 + (+2) = -1$

B $3 + (-2) = 1$

C $3 - (-2) = 1$

D $3 - (+2) = -1$



Solution: B

Subtraction is the same as addition of a negative.

$$3 + (-2) = 1$$

$$3 - 2 = 1$$

$$1 = 1$$

