

ADDING NEGATIVE NUMBERS

Recall: $5 + 3 = 8$



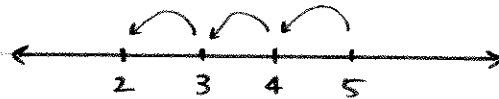
consider $5 + (-3)$.

by the commutative property

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

Since $-3 + 5 = 2$, $5 + (-3) = 2$

This means $5 + (-3)$ is the same as $5 - 3$!!



Summary: Adding a negative number is the same as subtracting its opposite

↳ example 1: Rewrite the following addition problems into corresponding subtraction problems, then evaluate:

a) $5 + (-2)$

b) $3 + (-1)$

c) $-2 + (-5)$

d) $0 + (-3)$

↪ example 2: Evaluate:

a) $10 + (-3)$

b) $5 + (-2) + (-1)$

c) $-3 + (-2)$

d) $-1 + (-9)$

↪ example 3: Evaluate:

a) $11 + (-17) + 4$

b) $(-7+4) + (-9+3)$

↪ example 4:

a) Find the sum of -8 , -10 and -3 .

b) Find the sum of 12 , -4 and -8 .

ADDING NEGATIVE NUMBERS Practice Problems

1. $12 + (-3) =$

2. $-9 + (-5) =$

3. $(-7 + 2) + (-12 + 9) =$

4. Find the sum of -3 , -2 and -5 .

5. Adding a negative 100 is the same as _____ 100.