Multiplying and Dividing Integers
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What is the reciprocal of -8? $\left[-\dfrac{1}{8}\right]$

Remember you can divide by multiplying by the reciprocal of the divisor.

Positive ÷ Positive

$6 \div 2$

$= 6 \cdot \dfrac{1}{2}$

$= \dfrac{1}{2} + \dfrac{1}{2} + \dfrac{1}{2} + \dfrac{1}{2} + \dfrac{1}{2} + \dfrac{1}{2}$

$= 3$

Positive ÷ Negative

$6 \div (-2)$

$= 6 \cdot (-\dfrac{1}{2})$

$= -\dfrac{1}{2}$

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You Try:
Identify and evaluate each expression.

$8 \div 4$; $8 \div (-4)$; $-8 \div (-4)$

<u>Positive ÷ Positive</u>

$8 \div 4$

$= 8 \cdot \dfrac{1}{4}$

$= \dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4}$
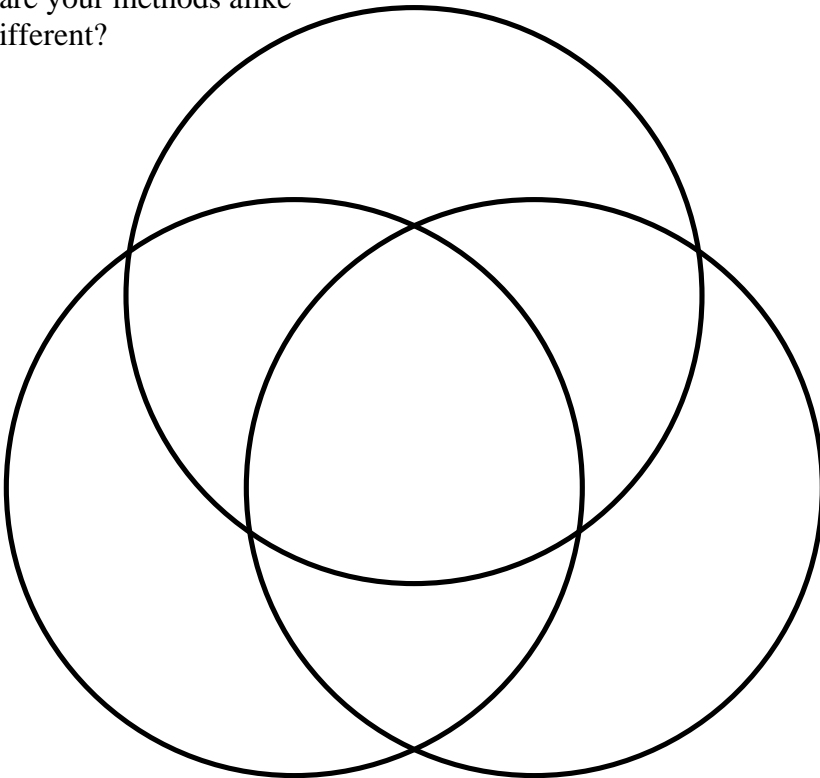
$= 2$

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Warm Up   6.NS.7.1d

- Evaluate the expression: -4 + -5 + -6
- Find two classmates who used other ways to evaluate the expression and record their methods.

My Method	Method 2 by	Method 3 by

How are your methods alike and different?

What is something new or different that you learned?

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