

Homework

Activity 1

Write a general statement about each property below. Use the examples provided to help you.

Model Commutative Property for Multiplication

Examples: $5 \cdot 6 = 6 \cdot 5$ $3 \cdot 4 = 4 \cdot 3$ *Answer: $a \cdot b = b \cdot a$*

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|---|---|
| <p>1. Associative Property
Examples:
$1 + (2 + 3) = (1 + 2) + 3$
$2 + (4 + 5) = (2 + 4) + 5$</p> | <p>2. Distributive Property
Examples:
$3(x + 2) = 3x + 6$
$-2(3 + w) = -6 + -2w$</p> |
| <p>3. Multiplicative Inverse Property
Examples:
$\frac{2}{3} \cdot \frac{3}{2} = 1$
$\frac{2}{1} \cdot \frac{1}{2} = 1$</p> | <p>4. Commutative Property for Addition
Examples:
$4 + 2 = 2 + 4$
$3 + w = w + 3$</p> |

Activity 2

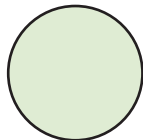
Use PEMDAS and integer rules to evaluate the numeric expressions. Remember to do diagnostics first, then go to the Algebra Toolbox.

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|------------------------------|----------------------------------|
| 1. $-8 + (-2 + -3) \cdot -7$ | 2. $15 + (-8 - -1) \cdot -2$ |
| 3. $10 - -2 \cdot -3 + -2^2$ | 4. $-16 \div -4 \cdot (-1 - -8)$ |

Activity 3

Find the volume of each sphere. Use the formula: $V = \frac{4}{3}\pi r^3$. Use 3.14 as the approximation for pi.

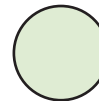
1. $r = 3$



2. $r = 0.5$



3. $r = 1$



Activity 4 • Distributed Practice

Solve.

- | | | |
|---------------------------------------|--|--|
| 1. $\frac{2}{3} + \frac{2}{6} = a$ | 2. $\frac{3}{4} - \frac{1}{2} = b$ | 3. $(-2 \cdot -2) \cdot -4 \div 4 = c$ |
| 4. $4^2 - 2^2 = d$ | 5. $\frac{6}{1} \cdot \frac{1}{6} = e$ | 6. $-2 - -4 = f$ |
| 7. $\frac{2}{4} \div \frac{2}{8} = g$ | 8. $\frac{10}{1} \cdot \frac{1}{10} = h$ | |