

Reteaching 2-1 Properties of Numbers

Properties of numbers help make mental computations easier.

Use mental math to simplify $\$1.84 + \$0.76 + \$0.16$.

Since $0.84 + 0.16 = 1$, it is easier to add $\$1.84$ and $\$0.16$ first.

$$1.84 + 0.76 + 0.16$$

$$= 1.84 + (0.16 + 0.76)$$

$$= (1.84 + 0.16) + 0.76$$

$$= 2.00 + 0.76$$

$$= \$2.76$$

Use the commutative property of addition.

Use the associative property of addition.

Add within parentheses.

Add.

Use mental math to simplify $5 \cdot 13 \cdot 20 \cdot 2$.

Since $5 \cdot 20 = 100$, it is easier to multiply 5 and 20 first.

$$5 \cdot 13 \cdot 20 \cdot 2$$

$$= (13 \cdot 5) \cdot 20 \cdot 2$$

$$= 13 \cdot (5 \cdot 20) \cdot 2$$

$$= 13 \cdot 100 \cdot 2$$

$$= 13 \cdot (200)$$

$$= 2,600$$

Use the commutative property of multiplication.

Use the associative property of multiplication.

Multiply within parentheses.

Multiply.

Multiply.

Use mental math to simplify each expression.

1. $198 + 15 + 302$

2. $16 + 27 + (-16)$

3. $4 \cdot 7 \cdot 25$

4. $2 \cdot 6 \cdot 5$

5. $18 + (-8) + 11$

6. $5 \cdot 9 \cdot 8$

7. $21 + 4 + (-1)$

8. $1,242 + 125 + 58$

9. $50 \cdot 13 \cdot 2$

10. $(-209) + 576 + (-91)$

11. $17 + 9 + 13 + 6$

12. $125 \cdot 353 \cdot 8$
