

**Share and Show**

1. Use properties to find
- $4 \times 23 \times 25$
- .

$23 \times \underline{\hspace{2cm}} \times 25$

\_\_\_\_\_ Property of Multiplication

$23 \times (\underline{\hspace{2cm}} \times \underline{\hspace{2cm}})$

\_\_\_\_\_ Property of Multiplication

$23 \times \underline{\hspace{2cm}}$

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**Use properties to find the sum or product.**

2.  $\frac{8}{9} + \frac{4}{9} + \frac{1}{9}$

3.  $9 \times 52$

✓ 4.  $107 + 0 + 39 + 13$

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**Complete the equation, and tell which property you used.**

5.  $9 \times (30 + 0.7) = (9 \times \underline{\hspace{2cm}}) + (9 \times 0.7)$

✓ 6.  $0 + \underline{\hspace{2cm}} = 4.76$

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**MTR**  
**5.1** Use patterns and structure.

Describe how you can use properties to solve problems more easily.

**On Your Own****Use properties to find the sum or product.**

7.  $3 \times 3\frac{3}{8}$

8.  $0.4 \times 0.6 \times 0.5$

9.  $21 + 25 + 39 + 5$

**Complete the equation, and tell which property you used.**

10.  $11 + (19 + 6) = (11 + \underline{\hspace{2cm}}) + 6$

11.  $25 + 14 = \underline{\hspace{2cm}} + 25$

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- 12.
- MTR**
- Show how you can use the Distributive Property to rewrite and find
- $(3.2 \times 0.6) + (3.2 \times 0.4)$
- .

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# Problem Solving · Applications

13. Three friends' meals at a restaurant cost \$13, \$14, and \$11. Use parentheses to write two different expressions to show how much the friends spent in all. Which property does your pair of expressions demonstrate?

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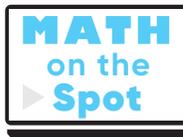
14. **MTR** Mito is designing an aquarium for a doctor's office. He plans to buy 6 red blond guppies, 1 blue neon guppy, and 1 yellow guppy. The table shows the price list for the guppies. How much will the guppies for the aquarium cost?

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15. Sylvia bought 8 tickets to a concert. Each ticket costs \$18. To find the total cost in dollars, she added the product  $8 \times 10$  to the product  $8 \times 8$ , for a total of 144. Which property did Sylvia use?

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16. Julie wrote  $(15 - 6) - 3 = 15 - (6 - 3)$ . Is Julie's equation sense or nonsense? Do you think the Associative Property works for subtraction? Explain.




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17. Find the property that each equation shows.

$$14 \times (4 \times 9) = (14 \times 4) \times 9 \bullet$$

- Commutative Property of Multiplication

$$1 \times 3 = 3 \times 1 \bullet$$

- Associative Property of Multiplication

$$\frac{1}{6} \times \frac{1}{3} = \frac{1}{3} \times \frac{1}{6} \bullet$$

- Identity Property of Multiplication



Blue neon	\$11
Red blond	\$22
Sunrise	\$18
Yellow	\$19

## Show the Math

Demonstrate Your Thinking