


1. Write the mathematical property that justifies each equation.

- a) $18 + 12 + -8 = 18 + -8 + 12$
- b) $(8 + -12) + 10 + 2 = 8 + (-12 + 10 + 2)$
- c) $9(605) = 9(600) + 9(5)$

2. Alex is looking at this parallelogram.  He needs to make several different figures that are similar to it.

- a) If he uses the scale factor $\frac{5}{6}$, will the new shape be larger or smaller than the original?
- b) List two different scale factors Alex could use to make a larger shape.
- c) List two different scale factors Alex could use to make a smaller shape.

3. Evaluate each expression when $a = -8$, $b = 5$, $x = -9$, and $y = -11$.

- a) ab^2
- b) $b - x - y$

4. Evaluate each expression when $a = 2\frac{1}{4}$, $b = 2\frac{2}{5}$, $c = 12$.

- a) ac
- b) $c \div b$

5. In a recent snail race, the winning snail traveled 45 cm in half of a minute. How fast was the snail traveling in centimeters per second?

Answers on next . a) page.



Answers

1. a) Commutative b) Associative c) Distributive

2. a) Smaller b) Any number greater than 1
 b) Any number less than 1

3. a) -200 b) 25

4. a) 27 b) 5

5. 1.5 cm/second