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## Unit 2: Pre-Unit Diagnostic Assessment

1. Which of these points is closest to the  $y$ -axis?

- A.  $(-6, 0)$
- B.  $(-2, 12)$
- C.  $(4, 2)$
- D.  $(5, 1)$

2. Which of these points is closest to the point  $(7, 1)$ ?

- A.  $(4, 1)$
- B.  $(7, -1)$
- C.  $(7, 4)$
- D.  $(11, 1)$

3. Quantities  $x$  and  $y$  are in a proportional relationship. Complete the table.

$x$	$y$
4	16
3	
	8

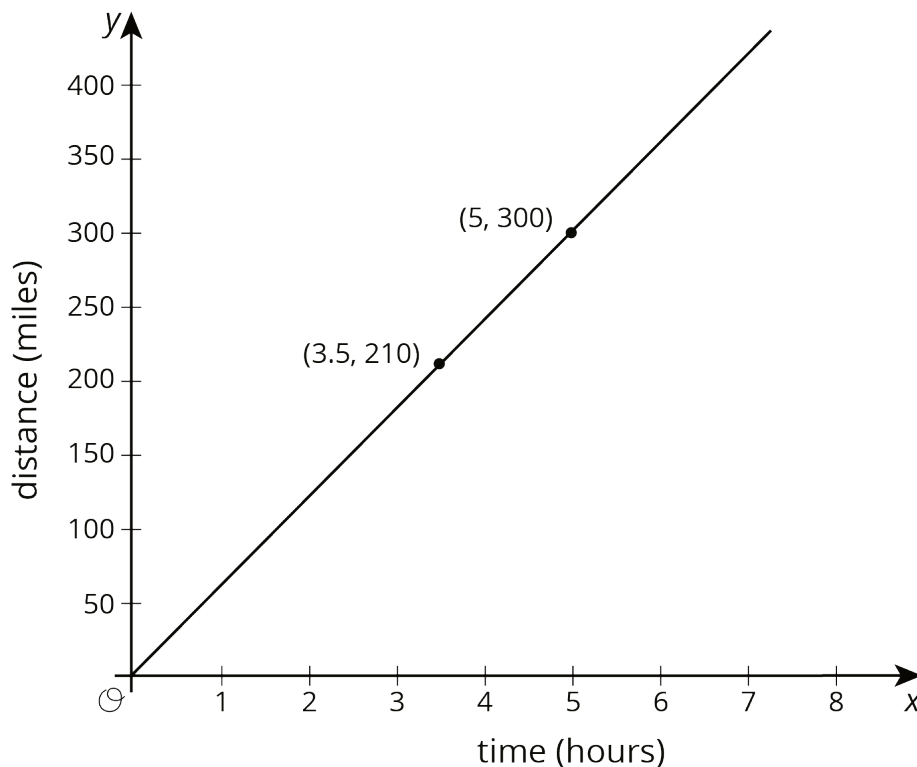
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4. A car traveled at a constant speed. The graph shows how far the car traveled, in miles, during a given amount of time, in hours.

- a. The point (3.5, 210) is on the graph. Explain what this means in terms of the car.
- b. Is the point (1, 60) on this graph? Explain how you know.



5. Evaluate each expression.

a.  $4 \div \frac{1}{3}$

b.  $\frac{3}{8} \div \frac{7}{2}$

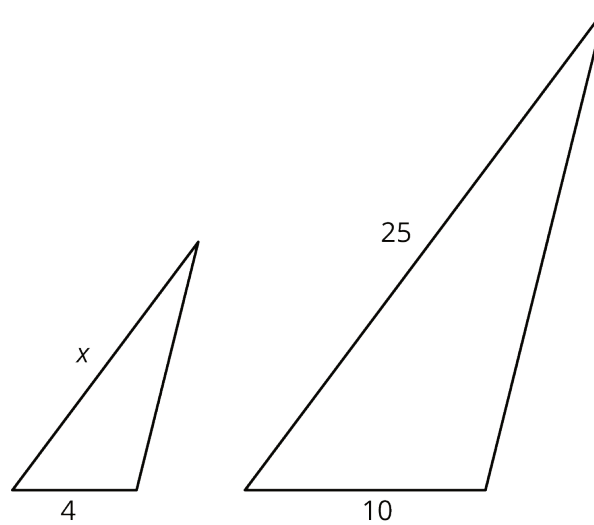
c.  $3\frac{1}{2} \div \frac{7}{4}$

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6.



The two triangles displayed are scaled copies of one another.

- a. Find the scale factor.
- b. What is the value of  $x$ ?

7. Is Figure B a scaled copy of Figure A? Explain how you know.

