

Algebra I - Unit 1: Topic 3 - Solving Proportions

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Pr	actice -	Solvina	Proportions

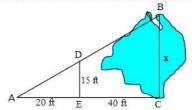
pp 114-120

Solve each proportion.

1.
$$\frac{t-5}{4} = \frac{3}{2}$$

$$2. \qquad \frac{1}{y-3} = \frac{3}{y-5}$$

3. Triangle ABC is similar to Triangle ADE. What is, x, the distance across the lake from Point B to Point C?



4. A museum has scale models representing different time periods in history. A scale in which one inch in the model represents two feet is used to construct the models. The museum's sculptor wants to build a model of an 21-foot-tall tree for one of the exhibits. How tall should she make the model of the tree?



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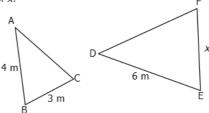
STOP MART received a delivery of 1080 bottles of Coke and Diet Coke. If the ratio of Coke delivered to Diet Coke delivered was 6:3, how many bottles of Diet Coke were delivered?

6.
$$\frac{6p-2}{7} = \frac{5p+7}{8}$$

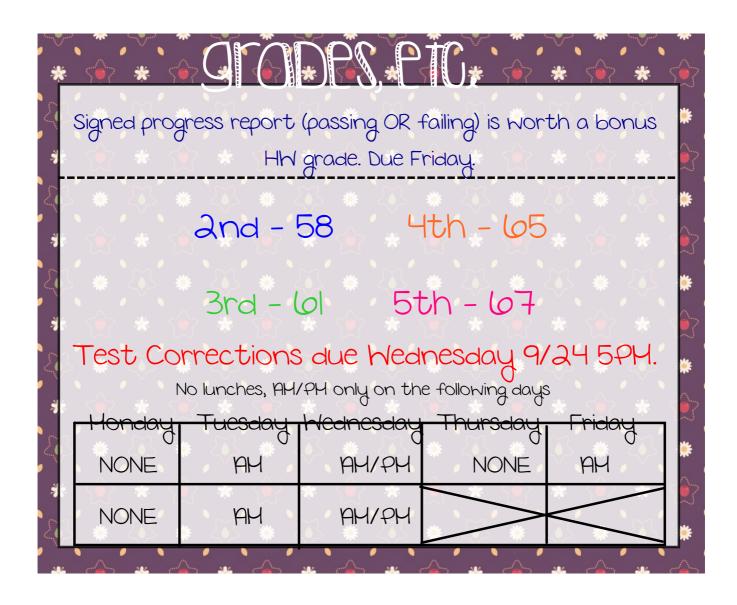
7.
$$\frac{a-3}{8} = \frac{3}{4}$$

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8. Triangle ABC is similar to Triangle DEF. What is the value of x?



- 9. Marlene can walk $2\frac{1}{2}$ miles in 40 minutes. Determine how far she can walk in one hour.
 - B. Marlene increases her rate to 3 miles in 40 minutes. At this current rate, how far will she walk in one hour?
- 10. Vince is making cookies for his Single Survival class. The recipe he is using requires 1 cup of milk for 8 servings. If he wants to make enough cookies for 28 servings, how much milk will Vince need?
- 11. Josh is 1.8 meters tall. On a sunny day, Lenny measured Josh's shadow (3.5 meters) and the shadow of their house at the same time.
 - A. Draw a picture to represent the situation.
 - B. If the length of the house's shadow is 5 times the length of Josh's shadow, how long is the house's shadow?
 - C. What is the height of the house?



pages

Notebook Score

$$\frac{SCORE}{160} = \frac{X}{100}$$

ex.
$$\frac{1300}{16} = \times 81\%$$

actone.mov

actthree.mov