

Name: _____

Date: _____ Per: _____

Lesson 7.2.1 Homework

7-112.

Solve the proportions using any strategy you choose. Show all of your steps.

a. $\frac{35}{70} = \frac{x}{100}$

b. $\frac{12}{33} = \frac{m}{11}$

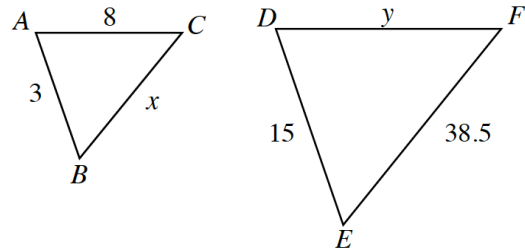
c. $\frac{x}{15} = \frac{12}{75}$

d. $\frac{4}{32} = \frac{10.5}{x}$

7-113.

Triangle ABC is similar to triangle DEF

- a. Find the scale factor from triangle ABC to triangle DEF.



- b. Find x .

- c. Find y .

7-114.

Andrew just opened a new office-supply store. He has been keeping track of how many customers visit his store. During his second week, he had 18 more customers than he did the first week. The third week, he had four less than twice as many customers as he had during the second week. In his fourth week of business, he had 92 customers. If he had 382 customers in total during his first four weeks of business, how many customers did he have during the second week?

7-115.

For each equation below, solve for x . Sometimes the easiest strategy is to use mental math.

a. $x - 35 = 125$

b. $5.2 + x = 10.95$

c. $2x - 3.25 = 7.15$

d. $x \cdot 16 = 38$

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7-116.

Jessica wants to make a spinner that has all of the following characteristics. Sketch a possible spinner for Jessica. Be sure to label each section of the spinner with a name and with its theoretical probability.

- Blue, red, purple, and green are the only colors on the spinner.
- It is half as likely to land on blue as to land on red.
- It is three times as likely to land on purple as green.
- There is a 50% probability of landing on either blue or red and a 50% probability of landing on either purple or green.