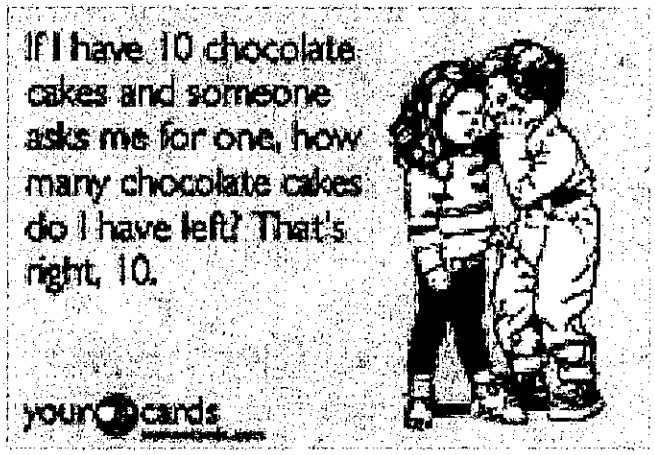
Name: _____

Hour: _____

Chapter 7

Lesson 7-1 & 7-3



Lesson 7-1: Ratio & Proportion

Vocabulary

Ratio: _____

Ratios Comparing *x* and *y*	Ratios Comparing 3 and 2

Slope: _____

_____

Formula:

Examples:

Proportion: _____

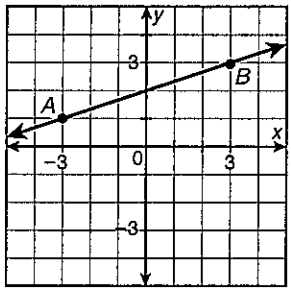
_____

Cross Products Property	$\frac{a}{b} = \frac{c}{d}$

Practice

Write a ratio expressing the slope of each line.

1.



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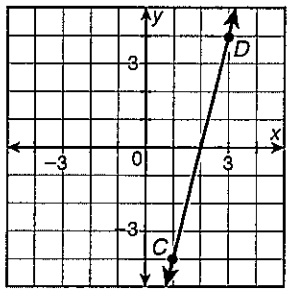
2.



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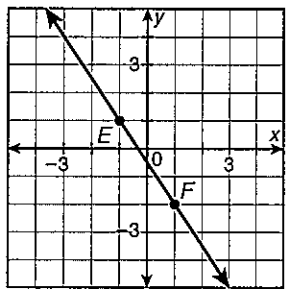
3.



_____

4. The ratio of the side lengths of a triangle is 2:4:5 and the perimeter is 55 cm. What is the length of the shortest side?

5. The ratio of the angle measures in a triangle is 7:13:16. What is the measure of the largest angle?

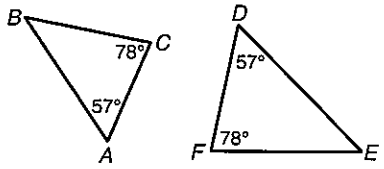
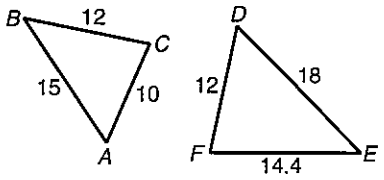
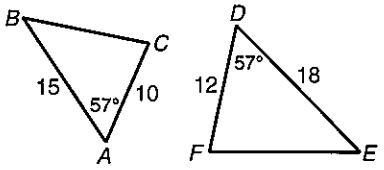
Solve each proportion.

6. $\frac{9}{t} = \frac{36}{28}$

7. $\frac{2a}{3} = \frac{8}{3a}$

Lesson 7-3: Triangle Similarity (AA, SSS, SAS)

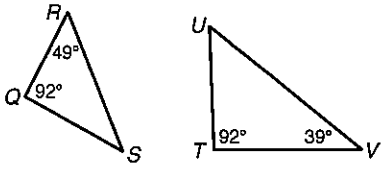
Vocabulary

Angle-Angle (AA) Similarity		 $\triangle ABC \sim \triangle DEF$
Side-Side-Side (SSS) Similarity		 $\triangle ABC \sim \triangle DEF$
Side-Angle-Side (SAS) Similarity		 $\triangle ABC \sim \triangle DEF$

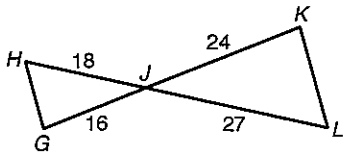
Practice

Explain how you know the triangles below are similar. Then, write a similarity statement.

1.



2.



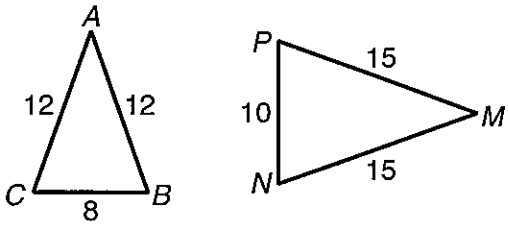
_____ _____

_____ _____

_____ _____

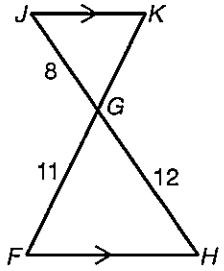
_____ _____

3. Is $\Delta ABC \sim \Delta MNP$? Explain...



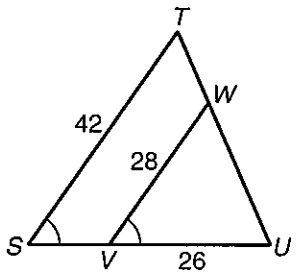
The triangles below are similar. Find the missing length.

4.



$GK =$ _____

5.



$US =$ _____