

Alg 1

Warm Up

Friday Week 4

Solve:

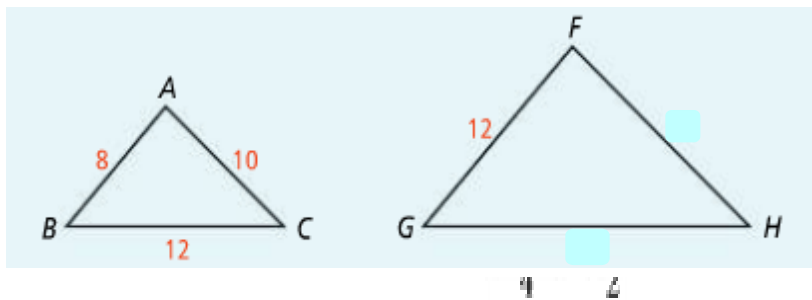
$$2d - (3d - 13) = 3d - (2d - 5)$$

1. Skill 1:

2. Skill 2 : Write a proportion and solve:

It took Mr. Fuller 7 minutes to eat 52 skittles. At this rate, how long will it take him to eat the other 137 candies in the bag?

3. If these figures are similar, how long is GH? How long is FH?



4. Solve for y

$$-3x - 6y = -54$$

5. **Music** A band went to a recording studio and recorded 4 songs in 3 h. How long would it take the band to record 9 songs if they record at the same rate?

6.

Solve and Check:

a. 
$$-56 = \frac{x}{4}$$

b. 
$$\frac{-12}{3} = \frac{x}{4}$$

c. 
$$\frac{7}{2} = \frac{x}{4}$$

7. **Statistics** Approximately 3 people out of every 30 are left-handed. About how many left-handed people would you expect in a group of 140 people?

## 2-9 Percents

## Notes & Examples

1. What percent of 50 is 42?

Set up and use a percent proportion:

$$\frac{\%}{100} = \frac{is}{of}$$

2. 125% of what number is 17.5?

3. What is 35% of 80?

4. A family sells a car to a dealership to 60% less than they paid for it. They paid \$9000 for the car. For what price did they sell the car?

## HW p 142: 31-37, 47

Tell whether you are finding a *percent*, a *part*, or a *base*. Then solve.

31. What is 9% of 56?

32. What percent of 36 is 96?

33. What is 95% of 150?

34. What is 175% of 64?

35. What percent of 30 is 400?

36. 60 is 250% of what number?

show all work

37. **Geography** Water covers approximately 11,800 mi<sup>2</sup> of Florida, which is about 18% of Florida's area. What is the total area of Florida to the nearest thousand square miles?



47. **Error Analysis** A student was asked to make up and solve a percent problem, so the student wrote, "What percent of 1.5 is 3?" and solved it as shown at the right. Describe and correct the error in the student's solution.

$$\begin{array}{l}
 \frac{a}{b} = \frac{p}{100} \\
 \frac{1.5}{3} = \frac{p}{100} \\
 150 = 3p \\
 50 = p \\
 3 \text{ is } 50\% \text{ of } 1.5.
 \end{array}$$