**Proportion Practice** **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Set up a proportion to solve each problem. Show all your work.

1. Jane found a sale stating that she could get 4 birthday cards for $7.95. How much will she pay if she orders 18 cards?
2. The school store sells 3 notebooks for $2.44. If Adam needs 7 notebooks, how much will he be charged?
3. A recipe calls for 3.5 cups of juice concentrate and 8.5 cups of water. How much juice concentrate should be used if 21 ¼ cups of water are used?
4. The pet store usually sells 12 puppies every 9 days. At this rate, how long will it take them to sell 174 puppies?
5. A project calls for 168 purple beads for every 56 blue beads. Jolene has 252 blue beads. How many purple beads should she purchase?
6. April is saving money to buy a new television. She saves $12 for every $75 she earns. How much will she need to earn to be able save $210?
7. In the past, 17 out of 52 students earned an A on Mrs. Andrew’s Chapter 4 Science test. This year, 181 students took the test. At this rate, how many students likely earned an A?
8. Geoff can usually run 7.4 miles in 71 minutes. Assuming he could continue at this pace, how much time would it take him to run 11.4 miles?
9. The triangles are similar. Solve for *x*.

49.6 cm

*x*

11.2 cm

14 cm

1. The rectangles are similar. Solve for *y*.

160 ft

624 ft

230 ft

*y*

**Proportion Practice** **- KEY**

Set up a proportion to solve each problem below. Show all your work.

1. Jane found a sale stating that she could get 4 birthday cards for $7.95. How much will she pay if she orders 18 cards?

 **$35.78**

1. The school store sells 3 notebooks for $2.44. If Adam needs 7 notebooks, how much will he be charged?

 **$5.69**

1. A recipe calls for 3.5 cups of juice concentrate and 8.5 cups of water. How much juice concentrate should be used if 21 ¼ cups of water is used?

 **8**$\frac{3}{4}$ **c juice**

1. The pet store usually sells 12 puppies every 9 days. At this rate, how long will it take them to sell 174 puppies?

**130.5 days**

1. A project calls for 168 purple beads for every 56 blue beads. Jolene has 252 blue beads. How many purple beads should she purchase?

 **756 purple beads**

1. April is saving money to buy a new television. She saves $12 for every $75 she earns. How much will she need to earn to be able save $210?

 **$1312.50**

1. In the past, 17 out of 52 students earned an A on Mrs. Andrew’s Chapter 4 Science test. This year, 182 students took the test. At this rate, how many students likely earned an A?

 **59 students**

1. Geoff can usually run 7.4 miles in 71 minutes. Assuming he could continue at this pace, how much time would it take him to run 11.4 miles? *(round to the nearest tenth)*

 **109.4 minutes**

1. The triangles are similar. Solve for *x***. *x* = 39.68 cm**
2. The rectangles are similar. Solve for *y*. ***y* = 897 ft**