Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_

**5.4B Solving Proportion Word Problems\_Classwork**

*Objective: solve proportions using cross products property; use a point on a graph to write and solve proportions. CC.SS.7.RP.2b, 2c MP4 Model with Mathematics*

*HW: 5.4B worksheet*

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| **WARM-UP**

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| *1. Round to the nearest tenth*$$\frac{7}{9}=\frac{6}{m-10}$$ | *2. Round to the nearest tenth*$$\frac{1}{2}=\frac{x+2}{12}$$ |

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**Set up a proportion to solve each word problem.**

1. In a certain desert environment there are a lot of small rodents. There also happen to be a lot of snakes that feed on the rodents. The ratio of rodents to rodent eating snakes is 13 to 3. If there are 4,000 snakes in the area, about how many rodents are there?
2. The Bigtown football team outscored its opponents 5:2 last season. If their opponents scored 38 points, how many points did Bigtown score?
3. In the local coed softball league, the male to female ratio is 6:6. If there are 160 players in the league, how many are female?

**BACK 🡪**

1. Shannon’s bicycle travels 50 feet for every 3 pedal turns. How many pedal turns are needed to travel one mile (1 mile = 5,280 feet)? Round to the nearest whole number.
2. Zach can read 7 pages of a book in 5 minutes. At this rate, how long will it take him to read the entire 175 page book? (Convert your final answer to hours and minutes)
3. A man can make 12 birdhouses in 8 hours. How many hours will it take him to make 30 birdhouses?
4. A cookie recipe for 5 dozen cookies calls for 4 cups of flour. How much flour is needed to make 90 cookies?