

Name: _____

Date: _____ American Math, Section: _____

Homework #8 – Ratios and rates

- 1) There are 50 white stars, 7 red stripes, and 6 white stripes on the U.S. flag. What is the relationship between stars and red stripes? Select a ratio that could be used to describe the relationship. Circle all that apply.

a. 50:7

e. 6 to 50

b. 7:6

f. 50 to 7

c. $\frac{7}{50}$

g. 50 to 13

d. 13:50

- 2) A traffic signal has 1 red, 1 yellow, and 1 green light. Read each relationship. Can the ration 1 to 3 be used to describe the relationship? Select Yes or No.

a. Number of lights on a traffic signal	Yes	No
b. Red lights to the total number of lights	Yes	No
c. Lights that are not red to the total number of lights	Yes	No
d. Lights that are not yellow or green to total number of lights	Yes	No

- 3) Look at each ratio. Is it equivalent to 36:20? Select True or False.

a. 9 to 5	True	False
b. $\frac{10}{18}$	True	False
c. 18:10	True	False
d. 72:56	True	False

- 4) Cassie drives 165 miles in 3 hours. Write the numbers that make the rates below equivalent to the rate 165 miles to 3 hours.

- a. Cassie drives _____ miles per hour.
b. Cassie drives _____ miles in 5 hours.

- 5) At Awesome Bakery Shop, the ratio of chocolate cupcakes to vanilla cupcakes is 3:4. There are 56 cupcakes in total. Use a tape diagram (the method used in class) to find the answers to the following:

- a. How many chocolate cupcakes are there? _____
b. How many vanilla cupcakes are there? _____
c. How many more vanilla cupcakes than chocolate cupcakes? _____