Homework Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Express each ratio as a fraction in simplest form***:

1. 56 pencils to 64 erasers 2. 25 calculators to 20 students

3. 36 cassettes to 60 CDs 4. 18 minnows to 27 fish

***Determine whether each pair of rations forms a proportion***.

1. $\frac{5}{8}$ , $\frac{20}{32}$ 6. $\frac{12}{28}$ , $\frac{27}{63}$ 7. $\frac{8}{50}$ , $\frac{1}{43}$ 8. $\frac{12}{32}$ , $\frac{20}{32}$ 9. $\frac{6.4}{16}$ , $\frac{32}{80}$

***Solve each proportion. If necessary, round to the nearest hundredth***:

 10. $\frac{- 3}{x}$ = $\frac{2}{8}$ 11. $\frac{0.1}{2}$ = $\frac{0.5}{x}$ 12. $\frac{x+1}{4}= \frac{3}{4}$ 13. $\frac{4}{6}$ = $\frac{8}{x}$ 14. $\frac{x}{21}$ = $\frac{3}{63}$

15. $\frac{9}{y+1}$ = $\frac{18}{54}$ 16. $\frac{3}{d}$ = $\frac{18}{3}$ 17. $\frac{5}{8}$ = $\frac{p}{24}$ 18. $\frac{4}{b-2}$ = $\frac{4}{12}$ 19. $\frac{3+y}{4}$ = $\frac{- y}{8}$

20. $\frac{a-18}{12}$ = $\frac{15}{3}$ 21. $\frac{12}{k}$ = $\frac{24}{k}$ 22. $\frac{2+w}{6}$ = $\frac{12}{9}$

23. To make a model of the Guadeloupe River Bed, Corey used 1 inch of clay for 5 miles of the river’s

 actual length. His model river was 50 inches long. How long is the Guadeloupe River?

24. Kayla finished 24 math problems in one hour. At that rate, how many hours will it take her to

 complete 72 problems?

25. During a test, 3 out of 100 cars selected at random were found to be detective. Use this ratio to

 estimate the number of defective cans if 1,500 cars are tested.

26. Brandon created a model of a frontier front. He used a scale of 1 inch to 2 feet. The walls of his

 model were 9 inches tall. How tall were the walls of the actual frontier fort?