Name_____ Date_____

Percent and Proportions Review

Ratios and Rates

1) There are 15 tigers and 25 lions in a nature preserve. Find the ratios of tigers to lions in simplest form.

2) A lion can run 75 feet in 15 seconds. What is the unit rate of how fast the lion can run?

Indicate AND explain whether or not the ratios form a proportion.

3) $\dfrac{4}{9}, \dfrac{2}{3}$

4) $\dfrac{32}{40}, \dfrac{12}{15}$

Solve the proportions.

6) $\dfrac{7}{3} = \dfrac{b}{18}$

7) $\dfrac{10}{9} = \dfrac{5}{k}$

8) $\dfrac{5}{12} = \dfrac{y}{15}$

9) $\dfrac{8}{20} = \dfrac{6}{w}$

Write the percent as a decimal.

10) 73%

11) 32.3%

12) 121.6%

13) 16%

14) 98.1%

15) 215.4%

Write the decimal as a percent.

16) 0.65

17) 1.35

18) 0.003

19) 0.14

20) 3.54

21) 0.016

Write the percent as fraction in simplest form.
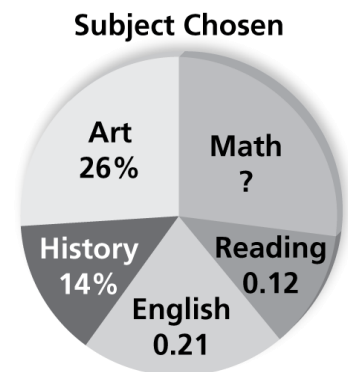
22) 68%

23) 9%

24) 55%

25) Students in an after-school enrichment program chose one of five subject areas.

a) What percent chose English or reading?

b) What percent chose English or history?

c) How many times more students chose English than reading?

d) What percent chose math? Write the percent as a decimal.

Subject Chosen

Art 26%

Math ?

History 14%

Reading 0.12

English 0.21

Tell which number is greater. Show any necessary work.

26) $\dfrac{3}{4}$, 70%

27) 0.482, 49%

28) 58%, $\dfrac{31}{50}$

Use a number line to order the numbers from least to greatest.

29) 0.64, $\dfrac{13}{20}$, 63%

30) 0.12, $\dfrac{1}{8}$, 0.135, 13%