Gillespie
Course 1: Ch5 Test Review Key
Apply Proportions to Percent

Directions: When working each of the following questions, be sure to show all work.

1) Express $\frac{1}{5}$ as a percent

   a) .02

   b) .2

   c) 2%

   d) <mark>20%</mark>

2) Express $\frac{11}{20}$ as a percent

   a) <mark>55%</mark>

   b) 5.5%

   c) .55

   d) 5.5

3) Express $8\frac{1}{2}$ as a percent

   a) 8.5

   b) 8.5%

   c) 85%

   d) <mark>850%</mark>

4) Express $3\frac{3}{4}$ as a percent

a) 3.75

b) 375%

c) 3.75%

d) 37.5%

5) What is 35% written as a fraction in simplest form?

a) $\frac{7}{20}$

b) $\frac{35}{100}$

c) $\frac{1}{3}$

d) $\frac{0.7}{2}$

6) What is 480% written as a mixed number in simplest form?

a) $4\frac{4}{5}$

b) $4\frac{80}{100}$

c) $\frac{480}{100}$

d) $\frac{480}{1,000}$

7) What is 57% written as a decimal?

a) 57.0

b) .57

c) 5.7

d) 57

8) What is 0.6 written as a percent?

a) 0.006%

b) 0.06%

c) 60%

d) 600%

9) Determine the part of the whole: 48% of 120

a) .576

b) 5.76

c) 57.6

d) 576

10) Determine the part of the whole: 260% of 75

a) 18.2

b) 1.95

c) 182

d) 195

11) Determine the part of the whole: 0.35% of 54

a) 0.189

b) 0.1925

c) 1.855

d) 1,890

12) Estimate the part of the whole: 75% of 595

a) $70\% \ of \ 595 \ is \ 400$

b) $70\% \ of \ 600 \ is \ 400$

c) $75\% \ of \ 595 \ is \ 445$

d) $75\% \ of \ 600 \ is \ 450$

13) Estimate the part of the whole: 59% of 150

a) $50\% \ of \ 150 \ is \ 70$

b) $55\% \ of \ 150 \ is \ 75$

c) $60\% \ of \ 150 \ is \ 90$

d) $65\% \ of \ 150 \ is \ 99$

14) Determine the part of the whole: 70% of 527

a) 367.5

b) 368

c) 368.9

d) 371

15) 30 is 20% of what number?

150

16) What number is 60% of 140?

84

17) 75% of 36 is what number?

27

18) What percent of 500 is 55?

11

<u>The following problems are an example of extra credit problems that might be on the test</u>

19) A group of friends went out for dinner. The total of the food and drinks was $92.40. The sales tax was 5.75%. What was the total bill, without tip? Round to the nearest cent.

$97.71

20) Charlie finished 7 laps around the track. This is 20% of the number of laps he has to do. How many laps must he do?

35 *laps*

21) A store is having a sale where shoes are 25% off their original price. A pair of gym shoes is on sale for $22.50. What was the original price of the gym shoes?

$30