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

- 1) On a track team, there are 15 girls out of 45 teammates. What is the ratio of girls to teammates written as a fraction in simplest form?
 - a) $\frac{3}{4}$
 - b) $\frac{1}{3}$
 - c) $\frac{3}{9}$
 - d) $\frac{2}{5}$
- 2) Mrs. Simpson's class has 8 boys and 16 girls. What is the ratio of boys to girls in simplest form?
 - a) $\frac{4}{8}$; 0.5
 - b) $\frac{1}{4}$; 0.25
 - c) $\frac{1}{2}$; 0.5
 - d) $\frac{8}{16}$; 0.5

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- 3) The table shows the numbers of different trees in a park. Express the ratio in simplest form that compares the number of spruce to the total number of trees.
 - a) $\frac{1}{4}$
 - b) $\frac{5}{20}$
 - c) $\frac{5}{15}$
 - d) $\frac{1}{3}$

Trees at a Park			
Tree	Number of Trees		
Oak	3		
Spruce	5		
Maple	6		
Weeping Willow	6		

- 4) The table shows the numbers of different trees in a park. Express the ratio in simplest form that compares the number of oak to maple trees.
 - a) $\frac{2}{9}$
 - b) $\frac{3}{6}$
 - c) $\frac{1}{2}$
 - d) $\frac{1}{3}$

Trees at a Park				
Tree	Number of Trees			
Oak	3			
Spruce	5			
Maple	6			
Weeping Willow	6			

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- 5) The table shows the numbers of different trees in a park. Express the ratio in simplest form that compares the number of spruce to weeping willow trees.
 - a) $\frac{3}{6}$
 - b) $\frac{5}{6}$
 - c) $\frac{3}{5}$
 - d) $\frac{6}{5}$

Trees at a Park			
Tree	Number of Trees		
Oak	3		
Spruce	5		
Maple	6		
Weeping Willow	6		

- 6) The table shows the numbers of different trees in a park. Express the ratio in simplest form that compares the number of maple to the total number of trees.
 - a) $\frac{3}{10}$
 - b) $\frac{2}{5}$
 - c) $\frac{6}{15}$
 - d) $\frac{6}{20}$

Trees at a Park				
Tree	Number of Trees			
Oak	3			
Spruce	5			
Maple	6			
Weeping Willow	6			

7) Express $\frac{20 \ assignments}{4 \ hours}$ as a unit rate

- a) $\frac{20 \ assignments}{4 \ hours}$
- b) $\frac{5 \ assignments}{4 \ hours}$
- c) $\frac{5 \ assignments}{1 \ hour}$
- d) $\frac{4 \ assignments}{1 \ hour}$

8) Write the unit rate for the following rate. 16 texts in 4 hours

- a) $\frac{8 \text{ texts}}{1 \text{ hour}}$
- b) $\frac{4 texts}{1 hour}$
- c) $\frac{16 texts}{4 hours}$
- d) $\frac{32 texts}{8 hours}$

9) Find the missing value in the proportion
$$\frac{24}{8} = \frac{w}{2}$$

- a) w = 6
- b) w = 4
- c) w = 3
- d) $w = \frac{1}{2}$

10) Find the missing value in the proportion $\frac{6}{m} = \frac{3}{7}$

a)
$$m = 42$$

b)
$$m = 39$$

c)
$$m = 21$$

d)
$$m = 14$$

11) Find the missing value in the proportion $\frac{9}{6} = \frac{6}{w}$

a)
$$w = 6$$

b)
$$w = 4$$

c)
$$w = 3$$

d)
$$w = 2$$

12)Write the unit rate for the following rate. 480 miles in 8 hours

a)
$$\frac{60 \, mi}{1 \, hour}$$

b)
$$\frac{62 mi}{1 hour}$$

c)
$$\frac{64 mi}{1 hour}$$

d)
$$\frac{66 \, mi}{1 \, hour}$$

13) Sam bought 6 notebooks for \$9. At this rate, how much will he spend on

11 notebooks?
$$\frac{\$}{notebooks} = \frac{\$}{notebooks}$$

a) \$16.25

money spent (\$)	9	?
# of notebooks	6	11

- b) \$16.50
- c) \$16.55
- d) \$16.90
- 14) Maria types a 5 page paper in 50 minutes. At this rate, how many pages will she type in 130 minutes? $\frac{pages}{minutes} = \frac{pages}{minutes}$
 - a) 11 pages

pages	5	W
minutes	50	130

- b) 12 pages
- c) 13 pages
- d) 15 pages
- 15) Six boxes of cards cost \$24. At this rate, how much would 4 boxes of notecards cost?
 - a) \$12
 - b) \$13
 - c) \$14
 - d) \$16