

Name _____

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

1) On a track team, there are 20 girls out of 50 teammates. What is the ratio of girls to teammates written as a fraction in simplest form?

a) $\frac{20}{50}$

b) $\frac{1}{5}$

c) $\frac{1}{2}$

d) $\frac{2}{5}$

2) Mrs. Simpson's class has 8 boys and 12 girls. What is the ratio of boys to girls?

a) $\frac{4}{6}$; 0.5

b) $\frac{2}{3}$; $0.\overline{6}$

c) $\frac{8}{12}$; 0.8

d) $\frac{3}{4}$; 0.66

- 3) The table shows the numbers of different trees in a park. Express the ratio in simplest form that compares the number of maples to the total number of trees.

<i>Trees at a Park</i>	
<i>Tree</i>	<i>Number of Trees</i>
Oak	3
Spruce	5
Maple	4
Weeping Willow	6

a) $\frac{2}{9}$

b) $\frac{4}{18}$

c) $\frac{4}{16}$

d) $\frac{4}{14}$

- 4) Express $\frac{16 \text{ assignments}}{4 \text{ hours}}$ as a unit rate.

a) $\frac{8 \text{ assignments}}{2 \text{ hour}}$

b) $\frac{4 \text{ assignments}}{1 \text{ hour}}$

c) $\frac{6 \text{ assignments}}{1 \text{ hour}}$

d) $\frac{16 \text{ assignments}}{4 \text{ hours}}$

- 5) Write the unit rate for the following rate. 24 texts in 2 hours

a) $\frac{12 \text{ texts}}{1 \text{ hour}}$

b) $\frac{6 \text{ texts}}{1 \text{ hour}}$

c) $\frac{24 \text{ texts}}{2 \text{ hours}}$

d) $\frac{24 \text{ texts}}{1 \text{ hour}}$

6) Write the unit rate for the following rate. 4 cups for \$2

a) $\frac{\$2}{1 \text{ cup}}$

b) $\frac{\$0.50}{1 \text{ cup}}$

c) $\frac{\$1}{1 \text{ cup}}$

d) $\frac{\$50}{1 \text{ cup}}$

7) Write the unit rate for the following rate. 585 miles in 9 hours

a) $\frac{6 \text{ mi}}{1 \text{ hour}}$

b) $\frac{68 \text{ mi}}{1 \text{ hour}}$

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

d) $\frac{65 \text{ mi}}{1 \text{ hour}}$

8) Write the unit rate for the following rate. \$59.50 for 7 T-shirts

a) $\frac{\$8.25}{1 \text{ t-shirt}}$

b) $\frac{\$8.75}{1 \text{ t-shirt}}$

c) $\frac{\$9.23}{1 \text{ t-shirt}}$

d) $\frac{\$8.50}{1 \text{ t-shirt}}$

9) A turtle came to the beach 5 times in 45 days. In how many days will the turtle return to the beach again if it continues returning at the same rate?

- a) 50 *days*
- b) 45 *days*
- c) 9 *days*
- d) 53 *days*

10) Sam bought 6 notebooks for \$9. At this rate, how much will he spend on 11 notebooks?

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

- a) \$16.50
- b) \$16.75
- c) \$16.55
- d) \$16.90

11) It takes a worker 70 minutes to pack 120 cartons of books. The worker has 14 minutes of work left. Use a ratio table to determine how many cartons of books the worker can pack in 14 minutes.

cartons of books	12		120	
minutes		14	70	

- a) $\frac{24 \text{ books}}{14 \text{ minutes}}$
- b) $\frac{120 \text{ books}}{70 \text{ minutes}}$
- c) $\frac{14 \text{ books}}{24 \text{ minutes}}$
- d) $\frac{12 \text{ books}}{14 \text{ minutes}}$

12) Maria types a 5 page paper in 40 minutes. At this rate, how many pages will she type in 136 minutes?

- a) 11 *pages*
- b) 14 *pages*
- c) 17 *pages*
- d) 19 *pages*

13) Seven boxes of cards cost \$21. At this rate, how much would 4 boxes of notecards cost?

- a) \$11
- b) \$12
- c) \$13
- d) \$14

14) Heather is making curtains for her home and uses 6 feet of fabric to make 24 curtains. At the same rate, how many curtains can she make with 18 feet of fabric?

- a) 67 *curtains*
- b) 68 *curtains*
- c) 71 *curtains*
- d) 72 *curtains*

15) Determine which ratio table and graph best represents the data for the following problem. Grayson bought a \$45 gift card for \$36. How much would he pay for a \$24 gift card?

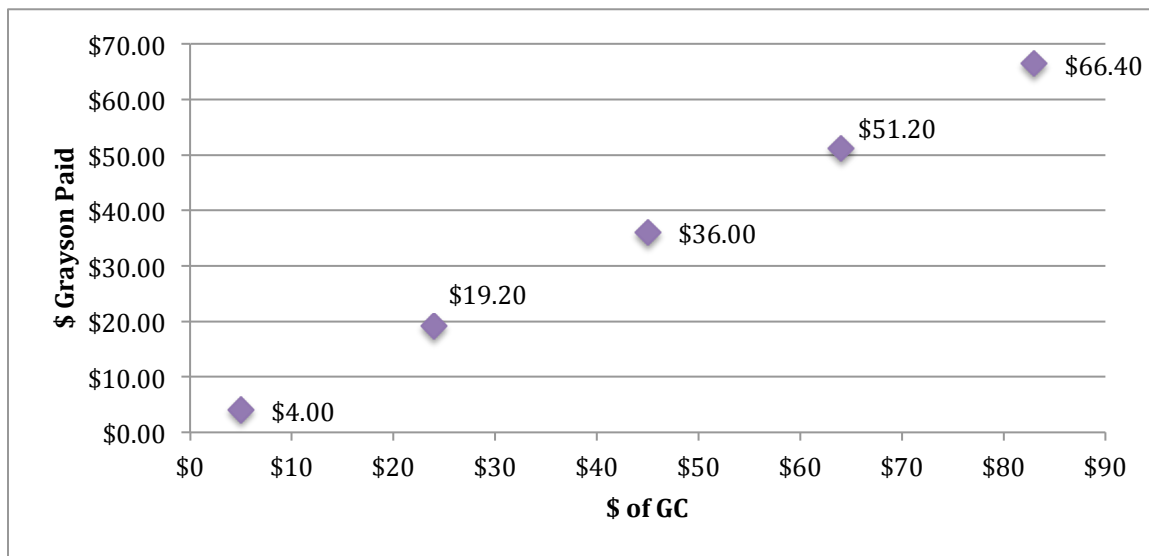
a)

<i>\$ of GC</i>	\$10	\$24	\$45	\$64	\$100
<i>\$ Paid</i>	\$1	\$15	\$36	\$55	\$91



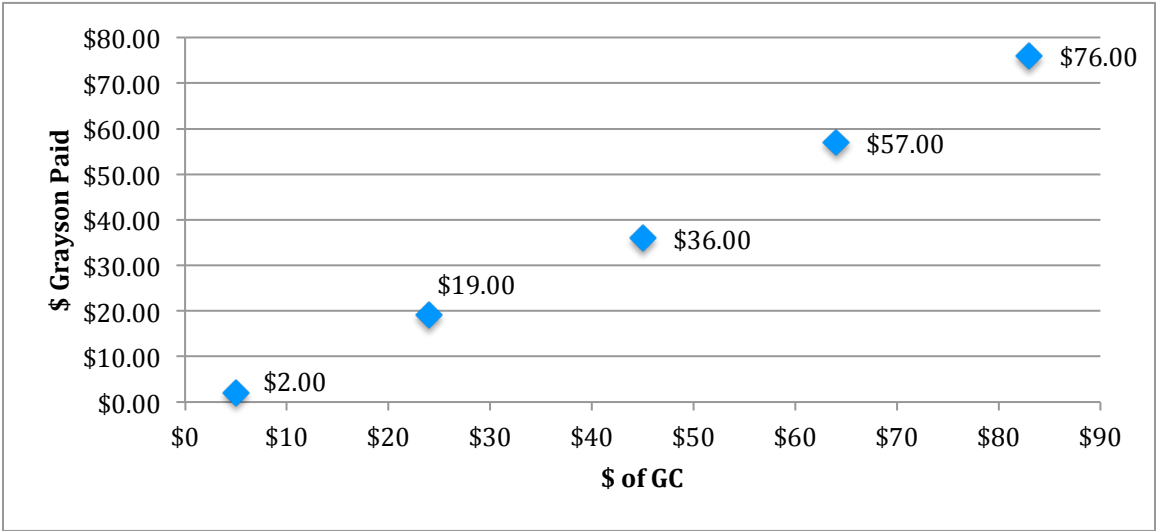
b)

<i>\$ of GC</i>	\$5	\$24	\$45	\$64	\$83
<i>\$ Paid</i>	\$4	\$19.20	\$36	\$51.20	\$66.40



c)

<i>\$ of GC</i>	\$5	\$24	\$45	\$64	\$83
<i>\$ Paid</i>	\$2	\$19	\$36	\$57	\$76



d)

<i>\$ of GC</i>	\$10	\$20	\$30	\$50	\$70
<i>\$ Paid</i>	\$9	\$14	\$26	\$45	\$65

