

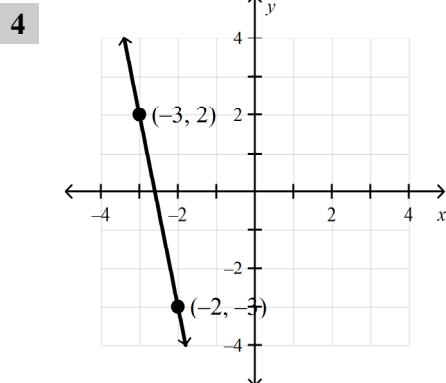
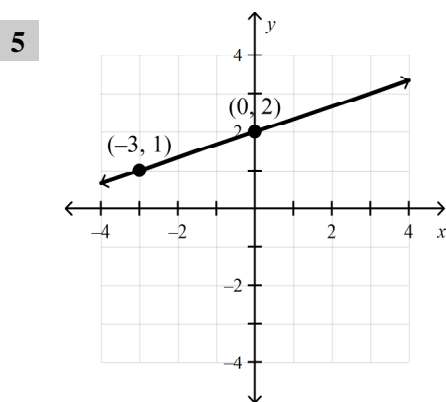
Math: Proportional Relationships STUDY GUIDE**Write the ratio as a fraction in simplest form.**

- 1**
- 21 girls to 35 boys _____

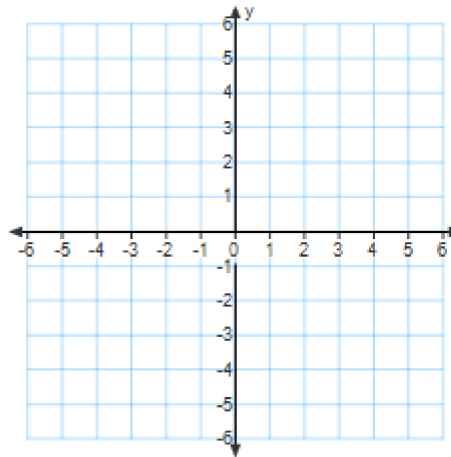
Find the unit rate.

- 2**
- 1,044 mi. in 12 hr. _____ mi./hr.

- 3**
- $\frac{2}{3}$
- ounces for
- $\frac{7}{8}$
- servings _____ oz./ser.

Find the slope of the line.4.) $m =$ _____5.) $m =$ _____

- 6**
- Draw a line through (3, 1) with a slope of
- $\frac{2}{3}$
- .

**Tell whether the ratios form a proportion. Circle Yes or No.**

7 $\frac{42}{60}, \frac{28}{40}$

7.) Yes No

8 $\frac{6.2}{9.6}, \frac{31}{48}$

8.) Yes No

Solve the proportion.

9 $\frac{1}{5} = \frac{n}{12}$

9.) $n =$ _____

10 $\frac{k}{8} = \frac{15}{12}$

10.) $k =$ _____

11 $\frac{2}{9} = \frac{3}{q}$

11.) $q =$ _____

12 You can buy 25 pops for \$10. How much do 16 pops cost?

12.) \$ _____

13 It costs \$99.60 for 6 people to attend a concert. How much does it cost a group of 14 people?

13.) \$ _____

14 Does this data represent a proportional relationship? Justify your answer.

Quarters	3	6	7	10
Minutes	21.6	43.2	50.4	72.0

14.) Yes No

15 The graph of a proportional relationship has two qualities:

1.) _____

2.) _____

The graph of a proportional relationship passes through the given point & (1, y). Find y.

16 Given point: (4, 28)

15.) $y =$ _____

17 The table shows your earnings y for x hours of work. Does this data represent a situation with a constant or varying rate of change?

x	4	7	10	13
y	\$30.00	\$52.50	\$75.00	\$97.50

Circle: Constant Varying

If constant, what is the rate of change?: _____

18 Write an equation of the proportional relationship.

x	1.4	2.6	3.8	5
y	8.4	15.6	22.8	30

18.) $y =$ _____ x

19 * B * O * N * U * S *

??????????

**Math: Proportional Relationships
Answer Section****STUDY GUIDE**

- 1** $\frac{3 \text{ girls}}{5 \text{ boys}}$
- 2** 87 mi./hr.
- 3** $\frac{16}{21}$ oz ./ser.
- 4** -5
- 5** $\frac{1}{3}$
- 6** through (0, -1) and (3, 1)
- 7** yes
- 8** yes
- 9** 2.4
- 10** 10
- 11** 13.5
- 12** \$6.40
- 13** \$232.40
- 14** yes
- 15** 1.) It is a straight line.
2.) It goes through the origin.
- 16** 7
- 17** constant, \$7.50/hr.
- 18** $y = 6x$
- 19** .