

# 3.1–3.5 Quiz



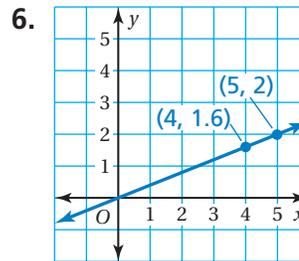
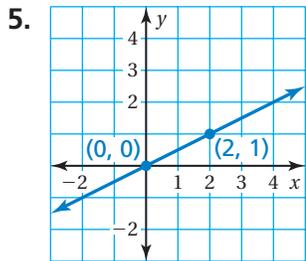
Write the ratio as a fraction in simplest form. (Section 3.1)

- 18 red buttons : 12 blue buttons
- 30 inches to 3 inches

Find the unit rate. (Section 3.1)

- 108 feet per 3 seconds
- 360 miles per 12 gallons

Find the slope of the line. (Section 3.2)



Tell whether the ratios form a proportion. (Section 3.3)

- $\frac{1}{8}, \frac{4}{32}$
- $\frac{2}{3}, \frac{10}{30}$

Use the table to write a proportion. (Section 3.4)

9.

	Monday	Tuesday
Dollars	42	56
Hours	6	$h$

10.

	Series 1	Series 2
Games	$g$	6
Wins	4	3

Solve the proportion. (Section 3.5)

- $\frac{x}{2} = \frac{40}{16}$
- $\frac{3}{11} = \frac{27}{z}$

13. **MUSIC DOWNLOAD** The amount of time needed to download music is shown in the table. Find the rate in megabytes per second. (Section 3.1)

Megabytes	Seconds
2	6
4	12
6	18
8	24

14. **GAMING** You advance 3 levels in 15 minutes. Your friend advances 5 levels in 20 minutes. Are these rates proportional? Explain. (Section 3.3)
15. **CLASS TIME** You spend 150 minutes in three classes. Write and solve a proportion to find how many minutes you spend in five classes. (Section 3.4)
16. **CONCERT** A benefit concert with three performers lasts 8 hours. At this rate, how many hours is a concert with four performers? (Section 3.5)