



## Math 6

### UNIT 1 – Interactive Notebook 1-5 Proportions

Name:

Date:

#### Common Core Standards

##### [CCSS.MATH.CONTENT.6.RP.A.3](#)

Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

##### [CCSS.MATH.CONTENT.6.RP.A.3.A](#)

Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.

# 1-5 Proportions

## Solve Problems Using Proportion

<b>Step 1</b>	Determine the relationship of the ratio in the given problem.
<b>Step 2</b>	Write a ratio that compares the quantities given in the problem.
<b>Step 3</b>	Write a proportion that reflects the equality of the ratios in fraction form.
<b>Step 4</b>	Solve for the unknown by cross multiplication.

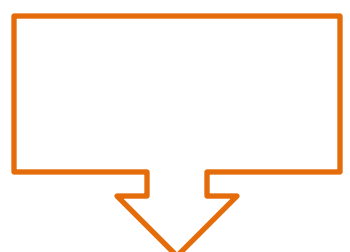
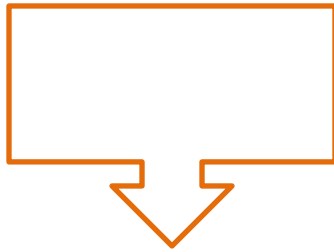
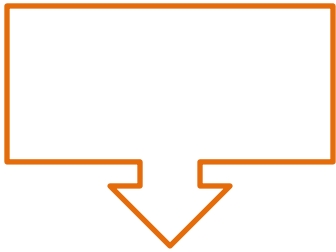
# Give What Is Asked

1. It takes 15 minutes for Joy to read 10 pages of a book. How long will it take her to read 100 pages of the book.

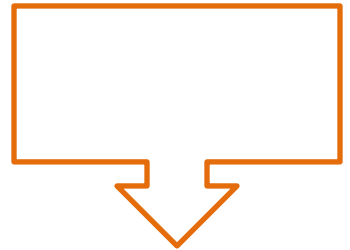
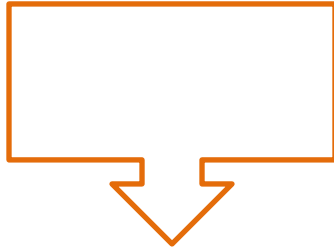
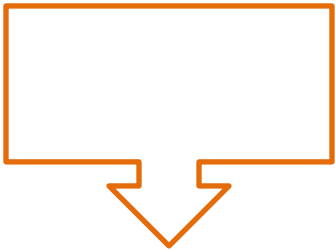
2. 16 candy bars weigh 32 ounces, how many candy bars are there if the candy bars weigh 48 ounces?

3. A car travels 240 miles in 6 hours. How far will it travel in 20 hours?

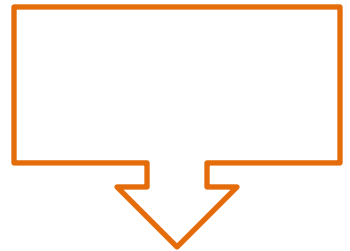
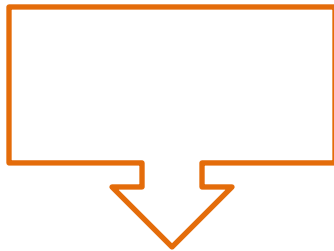
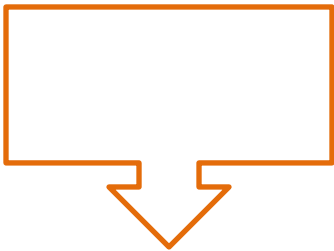
Step 1



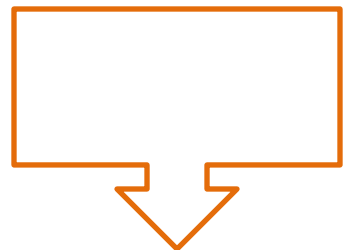
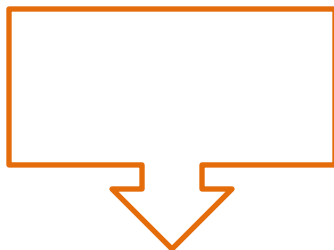
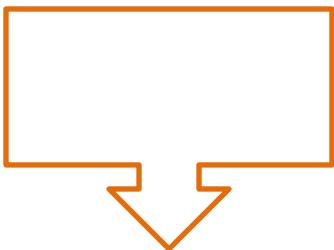
Step 2



Step 3



Step 4



# Task Cards

Match the blue cards and the pink cards to find proportions.

1

8:18

a

144:72

2

16:8

b

1.5:5:25

3

3:4

c

4:9

4

9:45

d

16:7

5

32:14

e

9:12

6

24:86

f

75:25

7

225:75

g

25:125

8

3:10.5

h

12:43

## ANSWER KEY

- 1**                **150 minutes**
- 2**                **24 candy bars**
- 3**                **800 miles**

## Task Cards

- 1.**                **c**
- 2.**                **a**
- 3.**                **e**
- 4.**                **g**
- 5.**                **d**
- 6.**                **h**
- 7.**                **f**
- 8.**                **b**