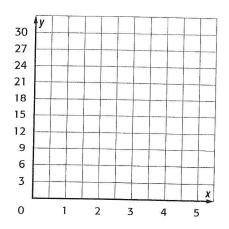
Determine whether the relationship between the two quantities shown in each table are proportional by graphing on the coordinate plane.

1.

Volume of a Cube	
Side Length (ft)	Volume (ft ³)
1	1
2	8
3	27

3.

Gallons of Gas Used Per Hour		
Number of Hours	Gallons of Gas	
3	15	
4	20	
5	25	



Determine whether each pair of ratios form a proportion.

6.
$$\frac{6}{8}$$
, $\frac{15}{20}$

$$4.\frac{16}{9},\frac{11}{6}$$

$$3.\frac{6}{8},\frac{9}{12}$$

Solve each proportion.

$$16. \, \frac{5}{10} \, = \, \frac{8}{w}$$

$$17.\frac{x}{9} = \frac{4}{15}$$

$$15. \frac{7}{z} = \frac{84}{12}$$

- 1) TRAVEL During Tracy's trip across the country, she traveled 2,884 miles. Her trip took 7 days. Find a unit rate to represent the average miles she traveled per day during the trip.
- 1. USAGE A 12-ounce bottle of shampoo lasts Enrique 16 weeks. How long would you expect an 18-ounce bottle of the same brand to last him?

6. SHELVES A bookshelf holds 43 books on each shelf. Is the total number of books proportional to the number of shelves in the bookshelf?

2. RECREATION An outdoor swimming pool costs \$8 per day to visit during the summer. There is also a \$25 yearly registration fee. Is the total cost proportional to the total number of days visited?

Days	1	2	3
Cost			

For Exercises 1-3, use the table of values. Write the ratios in the table to show the relationship between each set of values.

Number of Packages	1	2	3	4
Total Cost	\$11	\$20	\$29	\$38
Ratios (Divide)				

For Exercises 4-8 use the table of values. Write proportional or nonproportional.

4.					·
	Number of Hours	1	2	3	4
	Total Amount Earned	\$0.99	\$1.98	\$2.97	\$3.96