

Multi-Part Lesson 5-1: Proportions**PARTS A B**

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Find each unit rate. Round to the nearest hundredth if necessary.

1. \$240 for 4 days
2. 250 people in 5 buses
3. 500 miles in 10 hours
4. \$18 for 24 pounds
5. 32 people in 8 cars
6. \$4.50 for 3 dozen
7. 245 tickets in 5 days
8. 12 classes in 4 semesters
9. 60 people in 4 rows
10. 48 ounces in 3 pounds

PART C

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1. **POPCORN** Fun Center rents popcorn machines for \$20 per hour. In addition to the hourly charge, there is a rental fee of \$32. Is the number of hours you rent the popcorn machine proportional to the total cost? Explain.
2. **BAKING** Mrs. Govin is making cakes for the school bake sale. She needs 2 cups of sugar for every cake she makes. Is the number of cakes Mrs. Govin makes proportional to the number of cups of sugar? Explain.
3. **MUSIC** At a local music store, CDs cost \$11.99 including tax. Is the number of CDs purchased proportional to the cost of the CDs? Explain.
4. **SAVINGS** Jean has \$280 in her savings account. Starting next week, she will deposit \$30 in her account every week. Is the amount of money in her account proportional to the number of weeks? Explain.

Multi-Part Lesson 5-1 (continued)**PARTS D E**

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Solve each proportion.

1. $\frac{x}{15} = \frac{4}{5}$

2. $\frac{a}{11} = \frac{24}{8}$

3. $\frac{19}{p} = \frac{16}{32}$

4. $\frac{5}{t} = \frac{0.5}{0.3}$

5. $\frac{5}{19} = \frac{c}{57}$

6. $\frac{3.6}{3} = \frac{b}{2.5}$

7. $\frac{18}{4.5} = \frac{8}{f}$

8. $\frac{36}{7} = \frac{a}{21}$

9. $\frac{9}{8} = \frac{36}{a}$

10. $\frac{b}{126} = \frac{3}{14}$

Multi-Part Lesson 6-1: Percents

PARTS A B

Find each number. Round to the nearest tenth if necessary.

- 1. 5% of 40 2. 10% of 120 3. 12% of 150 4. 12.5% of 40
- 5. 75% of 200 6. 13% of 25.3 7. 250% of 44 8. 0.5% of 13.7
- 9. 600% of 7 10. 1.5% of 25

name _____

PRACTICE

WORKSHEET

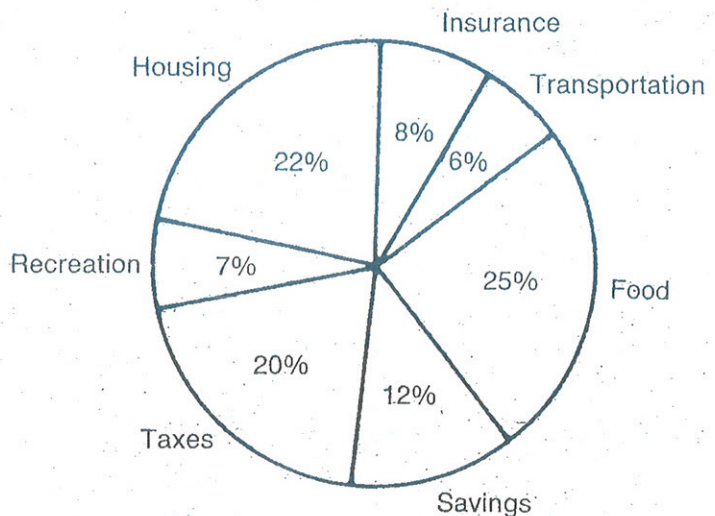
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Circle Graph and Percent

Jack uses a **circle graph** to show how he **budgets** the money he earns in a year. Suppose his yearly income is \$18,000. How much does he plan to save?

12% of \$18,000 = n .

$$\frac{12}{100} = \frac{x}{18,000}$$



He plans to save \$2,160.

Practice • Answer the questions.

- 1. What is the sum of the percents shown on the graph? _____
- 2. On which item does Jack plan to spend the most money? _____
- 3. On which item does Jack plan to spend the least money? _____
- 4. Does Jack plan to spend more money on food than on housing? _____
- 5. Does Jack plan to spend more on insurance than on taxes? _____

How much money does Jack budget for

- 6. insurance? _____
- 7. transportation? _____
- 8. food? _____
- 9. housing? _____
- 10. recreation? _____
- 11. taxes? _____