

Review Part 2: Chapter 2 Lessons 1- 5

Dimensional Analysis or Unit Conversion

Convert each rate (Dimensional Analysis). Round to the nearest tenth.

1. $\frac{42mi}{hr} \rightarrow \frac{ft}{s}$

Know

Want

2. $\frac{75g}{cm} \rightarrow \frac{kg}{m}$

Know

Want

Complex Fractions and Unit Rates

3. Claire is making a dress for the prom. She bought $4\frac{1}{2}$ yards of fabric. Her total cost was \$14.50. What was the cost per yard of fabric?

4. Mr. Johnson drove from Port Neches to Houston, a 95- mile trip. The trip took $1\frac{1}{2}$ hours. What was her average speed in miles per hour?

Unit Rates: What is a unit rate?

5. Determine which is the better buy by finding the candy corn's **price per ounce**.



\$10.95

Candy Corn Fall Halloween
Autumn candy 1 pound



\$11.95

Indian Candy Corn Fall
Halloween Autumn candy 1
pound

6. Michael rode his bike 30 miles in $1\frac{1}{2}$ hours. Terri rode her bike 21 miles in $\frac{3}{4}$ of an hour. Determine the **unit rate** in **miles per hour for** each. Then, compare the two by writing a sentence about who rode faster.

Michael's trip:

Terri's trip:

Final answer: _____

7. The world's fast car drives at a rate of 165 miles per hour. How long would it take the car to go 330 miles?

8. Mia saves about 14 points per game. If she continues this path, how many points will she save in 4 games?

9. Is the table proportional or nonproportional?

number of cases they order	number of rolls of paper towels
1	12
3	36
5	60
10	120

Explain: _____

10. Is the table proportional or nonproportional?

shape	perimeter
1	4
2	6
3	8
4	12
5	16

Explain: _____

