Unit Rate Exit Quiz

Part A: Fill in the blanks with RATIO or RATE where appropriate.

1. _____is a comparison of or a relationship between two quantities by division.

2. _____ is a comparison of quantities with different units.

Part B: Determine the unit rate in the following problems.

1. Jenny can run 25 miles in 5 hours. How far did she run in miles per hour?

2. You are given 40 questions to answer in 20 minutes. How many questions can you answer per minute?

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Unit Rate Exit Quiz

3. Ben receives $250 per week at his part-time job, if Ben works 5 hours per day from Monday to Friday.

   a. How many hours does he work every week?

   b. How much does Ben earn per hour?

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Answers:

Part A: Fill in the blanks with RATIO or RATE where appropriate.

1. RATIO is a comparison of or a relationship between two quantities by division.

2. RATE is a comparison of quantities with different units.

Part B: Determine the unit rate in the following problems.

1. Jenny can run 25 miles in 5 hours. How far did she run in miles per hour?

   Solution:

   Step 1: 25 miles per 5 hours

   Step 2: $\frac{25 \ miles}{5 \ hours}$

   Step 3: 25 miles/5 = 5 miles

           5 hours/5 = 1 hour

   Step 4: $\frac{5 \ miles}{hour}$, therefore Jenny can run 5 miles per hour.

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2. You are given 40 questions to answer in 20 minutes. How many questions can you answer per minute?

Solution:

Step 1: 40 questions per 20 minutes

Step 2: $\frac{40\ questions}{20\ minutes}$

Step 3: 40 questions/20 = 2 questions

　　　　20 minutes/20 = 1 minute

Step 4: $\frac{2\ questions}{minute}$, therefore Jenny can answer 2 questions per minute.

3. Ben receives $250 per week at his part-time job, if Ben works 5 hours per day from Monday to Friday.

a. How many hours does he work every week?

Solution:

5 hours x 5 days = 25 hours per week

b. How much does Ben earn per hour?

Solution:

Step 1: $250 per 25 hours

Step 2: $\frac{\$250}{25\ hours}$

Step 3: $250/25 = $10

　　　　25 hours/25 = 1 hour

Step 4: $\frac{\$10}{hour}$, therefore Ben can earn $10 per hour.