

Unit Rate Word Problems

Name: _____ Score: _____

Solve the following unit rate problems and show your workings.

1. A chicken can lay 5 eggs per week. How many days will it take the chicken to lay 200 eggs?



2. If you drive your car at a speed of 100 km per hour, how many minutes will it take you to travel 250 kilometers?
3. Peter likes to earn some more pocket money and washes cars in the neighbourhood. He can wash 3 cars per day and earns \$20 per car. How long will it take him to earn \$120?
4. I can memorize 20 French words in 30 minutes. How many hours will it take me to remember 500 words?
5. In a stationery store the price of 7 staplers is \$26.25. What is the price of 20 such staplers?
6. I can run 700 meters in 5 minutes. If I run at this speed, how long will it take me to run a 42 kilometer marathon?

Answers

Solve the following unit rate problems and show your workings.

1. A chicken can lay 5 eggs per week. How many days will it take the chicken to lay 200 eggs?

$$200 \div 5 \times 7 \text{ days} = 280 \text{ days}$$



2. If you drive your car at a speed of 100 km per hour, how many minutes will it take you to travel 250 kilometers?

$$(250 \div 100) \times 60 = 150 \text{ minutes}$$

3. Peter likes to earn some more pocket money and washes cars in the neighbourhood. He can wash 3 cars per day and earns \$20 per car. How long will it take him to earn \$120?

$$120 \div (3 \times 20) = 2 \text{ days}$$

4. I can memorize 20 French words in 30 minutes. How many hours will it take me to remember 500 words?

$$500 \div 20 \times 30 = 750 \text{ minutes} = 12.5 \text{ hours}$$

5. In a stationery store the price of 7 staplers is \$26.25. What is the price of 20 such staplers?

$$(26.25 \div 7) \times 20 = \$75$$

6. I can run 700 meters in 5 minutes. If I run at this speed, how long will it take me to run a 42 kilometer marathon?

$$(42,000 \div 700) \times 5 = 300 \text{ minutes} = 5 \text{ hours}$$