

Unit Rate Word Problems

Name: _____ Score: _____

Solve the following unit rate problems and show your workings.

1. I write about 12 emails per day. How long will it take me to write 60 emails?



2. Peter can run 10 kilometers in 2 hours at a steady rate. How long will it take him to run 30 kilometers?
3. I can wash a car in 20 minutes. How long will it take me to wash 20 cars?
4. I can type 4 words per minute. How long will it take me to write an 500 words essay?
5. A baker can bake 20 cakes per hour. How long will it take him to bake 400 cakes?
6. It takes me 10 minutes to swim 2 laps. How long will it take me to swim 5 laps?

Answers

Solve the following unit rate problems and show your workings.

1. I write about 12 emails per day. How long will it take me to write 60 emails?

$$60 \div 12 = 5 \text{ days}$$



2. Peter can run 10 kilometers in 2 hours at a steady rate. How long will it take him to run 30 kilometers?

$$(30 \div 10) \times 2 = 6 \text{ hours}$$

3. I can wash a car in 20 minutes. How long will it take me to wash 20 cars?

$$20 \times 20 = 400 \text{ minutes} = 6 \text{ hours and } 40 \text{ minutes}$$

4. I can type 4 words per minute. How long will it take me to write an 500 words essay?

$$500 \div 4 = 125 \text{ minutes} = 2 \text{ hours and } 5 \text{ minutes}$$

5. A baker can bake 20 cakes per hour. How long will it take him to bake 400 cakes?

$$400 \div 20 = 20 \text{ hours}$$

6. It takes me 10 minutes to swim 2 laps. How long will it take me to swim 5 laps?

$$(5 \div 2) \times 10 = 25 \text{ minutes}$$