## Unit Rate Word Problems

Name:

Score: \_

Solve the following unit rate problems and show your workings.

1. A car manufacturer can produce 200 cars per day. How many weeks will it take to produce 5,600 cars?



- 2. Amra can run 20 kilometers in 3 hours at a steady rate. How long will it take her to run just 5 kilometers?
- 3. Petra always keeps the 6 bedrooms in her house clean. It takes her 15 minutes to clean a single rooms. How many hours will it take her to clean all 6 bedrooms?
- 4. I can type 400 words per hour. How many minutes will it take me to write a report with 2,000 words?
- 5. When I work for 4 hours I take 2 breaks of 15 minutes each. If I worked 12 hours yesterday, how many minutes in breaks did I take?
- 6. It takes me 12 minutes to swim 4 laps. How many hours will it take me to swim 50 laps?

## Answers

Solve the following unit rate problems and show your workings.

1. A car manufacturer can produce 200 cars per day. How many weeks will it take to produce 5,600 cars?



5,600 ÷ 200= 28 days = 4 weeks

2. Amra can run 20 kilometers in 3 hours at a steady rate. How long will it take her to run just 5 kilometers?

180 minutes  $\div$  20 = 9 minutes, 9 x 5 = 45 minutes

3. Petra always keeps the 6 bedrooms in her house clean. It takes her 15 minutes to clean a single rooms. How many hours will it take her to clean all 6 bedrooms?

15 x 6 = 90 minutes = 1.5 hours

4. I can type 400 words per hour. How many minutes will it take me to write a report with 2,000 words?

2,000 ÷ 400 = 5 hours = 300 minutes

5. When I work for 4 hours I take 2 breaks of 15 minutes each. If I worked 12 hours yesterday, how many minutes in breaks did I take?

 $12 \div 4 = 3$  periods  $x 2 \times 15 = 90$  minutes

6. It takes me 12 minutes to swim 4 laps. How many hours will it take me to swim 50 laps?

 $12 \div 4 = 3$  minutes per lap x 50 = 150 minutes = 2.5 hours