Unit Rate Word Problems

Name: _____ Score: _____

Solve the following unit rate problems and show your workings.

1. I can type 50 words in 10 minutes. How long
    will it take me to write 150 words?

2. An airplane can reach a speed of 650 miles per hour. How long will
    it take the airplane to travel a distance of 1,950 miles at top speed?

3. I can swim 200 meters in 8 minutes. How long will it take me
    to swim 1 kilometer

4. A factory can produce 200 cars per day. How long is needed to
    produce 9,000 cars?

5. A florist can prepare 12 flower bouquets per day. How long will it take
    him to prepare 624 bouquest?

6. It takes me 12 minutes to run 2 kilometers.. How long will it take me
    to run 10,000 meters?

Answers

Solve the following unit rate problems and show your workings.

1. I can type 50 words in 10 minutes. How long will it take me to write 150 words?

    (150 ÷ 50) x 10 minutes = 30 minutes

2. An airplane can reach a speed of 650 miles per hour. How long will it take the airplane to travel a distance of 1,950 miles at top speed?

    1,950 ÷ 650 = 3 hours

3. I can swim 200 meters in 8 minutes. How long will it take me to swim 1 kilometer

    (1,000 ÷ 200) x 8 = 40 minutes

4. A factory can produce 200 cars per day. How long is needed to produce 9,000 cars?

    9,000 ÷ 200 = 45 days

5. A florist can prepare 12 flower bouquets per day. How long will it take him to prepare 624 bouquest?

    624 ÷ 12 = 52 days

6. It takes me 12 minutes to run 2 kilometers.. How long will it take me to run 10,000 meters?

    (10,000 ÷ 2,000) x 12 = 60 minutes = 1 hour