Ratio and Proportion Word Problems

Name: _____   Score: _____

Solve the following ratio and proportion problems and show your workings.

1. 21 pounds of tomatos cost $31.50. How many pounds of tomatos can you get for $45

2. My car can drive 300 kilometers on 40 liters of gasoline. How many liters of gasoline do I need to drive 750 kilometers?

3. A train can travel 360 miles in 4 hours. How much time will it take travelling 585 miles?

4. I love reading books and I can read 50 pages in 2 days. How many pages can I read in 3 weeks.

5. A car manufacturer can make 2400 cars in 4 hours. How many cars can it produce in 15 minutes?

6. A typist can type 120 words in 90 seconds. At that rate, how many minutes would it take her to type 240 words?

Answers

Solve the following ratio and proportion problems and show your workings.

1. 21 pounds of tomatos cost $31.50. How many pounds of tomatos can you get for $45

    31.5 ÷ 21 = 1.5 so 45 ÷ 1.5 = 30 pounds

2. My car can drive 300 kilometers on 40 liters of gasoline. How many liters of gasoline do I need to drive 750 kilometers?

    300 ÷ 40 = 7.5 so 750 ÷ 7.5 = 100 liters

3. A train can travel 360 miles in 4 hours. How much time will it take travelling 585 miles?

    360 ÷ 4 = 90 so 585 ÷ 90 = 6.5 hours, or 6 hours 30 minutes

4. I love reading books and I can read 50 pages in 2 days. How many pages can I read in 3 weeks.

    50 ÷ 2 = 25so (3 x 7) x 25 = 525 pages

5. A car manufacturer can make 2400 cars in 4 hours. How many cars can it produce in 15 minutes?

    2,400 ÷ 240 = 10 cars per minute x 15 = 150 cars

6. A typist can type 120 words in 90 seconds. At that rate, how many minutes would it take her to type 240 words?

    120 ÷ (90 ÷ 60) = 80 words per minute, 240 ÷ 80 = 3 minutes