

7.2.2 Convert Unit Rates Practice

Name: _____

For # 1 - 3 find the unit rate.

1. 5 oranges for \$3
2. 72 kilograms in 60 seconds
3. 746 grams for 42 chicken nuggets

4. On October 12, 2019 in Vienna, Austria, Eliud Kipchoge became the first person to run a marathon (26.2 miles) in under two hours with a final time of 1:59.4. What was his average pace? (How many minutes per mile?)

5. Eliud Kipchoge is from Kenya where the metric system is used. Convert his rate (26.2 miles in 1 hour, 59.4 minutes) to meters per second. 1 inch = 2.54 cm

6. Naader Reda ate 150 McDonalds chicken nuggets in 58 minutes, 59.00 seconds. How many nuggets per second is that?

Thomas Welborn holds the world record for eating the most chicken nuggets in three minutes (746 grams, or approximately 42 chicken nuggets). What is that rate in nuggets per second?

The most retweeted tweet of 2017 was made by Carter Wilkerson who asked Wendy's what it would take for a year of free nuggets. He didn't reach 18 million retweets, but they gave him a year of free nuggets anyway. Assuming they would give him 6 free nuggets every day, how many nuggets would that be?

How long would it take Thomas Welborn to eat them all, assuming he does it in one sitting?

7.2.2 Convert Unit Rates Practice **Answers**

For # 1 - 3 find the most useful unit rate.

1. 5 oranges for \$3 **\$0.60 per orange**
2. 72 kilograms in 60 seconds **7.2 kg per second**
3. 746 grams for 42 chicken nuggets **17.8 grams per nugget**

4. On October 12, 2019 in Vienna, Austria, Eliud Kipchoge became the first person to run a marathon (26.2 miles) in under two hours with a final time of 1:59.4. What was his average pace? (How many minutes per mile?) **4.56 minutes per mile**

5. Eliud Kipchoge is from Kenya where the metric system is used. Convert his rate (26.2 miles in 1 hour, 59.4 minutes) to meters per second. 1 inch = 2.54 cm

5.89 meters per second

6. Naader Reda ate 150 McDonalds chicken nuggets in 58 minutes, 59.00 seconds. How many nuggets per second is that? **.04 nuggets per second** **23.6 seconds per nugget**

7. Thomas Welborn holds the world record for eating the most chicken nuggets in three minutes (746 grams, or approximately 42 chicken nuggets). What is that rate in nuggets per second?

.23 nuggets per second **4.3 seconds per nugget**

8. The most retweeted tweet of 2017 was made by Carter Wilkerson who asked Wendy's what it would take for a year of free nuggets. He didn't reach 18 million retweets, but they gave him a year of free nuggets anyway. Assuming they would give him 6 free nuggets every day, how many nuggets would that be? **2190 nuggets**

How long would it take Thomas Welborn to eat them all, assuming he does it in one sitting?

156.4 minutes, which is 2.6 hours