

Word problem on unit rates associated with ratios of whole numbers: decimal answers: Worksheet 9.1

Name Date Score

1. A machine makes 9 pens in 5 seconds. What is the rate of pens made per second?
2. A machine worked for 6 hours and used 5 kilowatts of electricity. What is the rate of energy consumed in kilowatts per hour?
3. A jogger ran 48 kilometers in 5 days. What is the rate he travelled in kilometers per day?
4. A pencil factory used 50 grams of graphite to make 8 pencils. What is the rate in grams per pencil?
5. A programmer worked for 4 hours and earned \$90. What is the rate of earnings in dollars per hour?
6. Donald spent 9 days collecting 14 pounds of cans. What is the rate of collection in pounds per day?
7. A candy factory used 7 gallons of syrup to make 5 batches of candy. What is the rate of syrup used in gallons per batch?
8. A ride owner in a fair, charges \$21 for entry of 4 people. What is the rate of earnings in dollars per person?
9. A tailor used 8 meters of string to make 13 Halloween masks. What is the rate of string used in meters per mask?
10. Allen earned \$25 for mowing 6 lawns. What is the rate of earnings in dollars per lawn?



Solutions: Worksheet 9.1

1. 1.8 pens per second
2. 0.83 kilowatts per hour
3. 9.6 kilometers per day
4. 6.25 gram per pencil
5. \$22.5 per hour
6. 1.55 pounds per day
7. 1.4 gallons per batch
8. \$5.25 per person
9. 0.62 meter per mask
10. \$4.17 per lawn

