

Name _____

Date _____

Quantities and Descriptive Modeling - Independent Practice Worksheet 1

Complete all the problems.

1) Tomorrow is my friend's birthday. I want to give her chocolate truffles. In the market I found three different sizes of truffles.

Small – 2 pounds for \$150

Medium – 3 pounds for \$200

Large – 10 pounds for \$600

If I have \$1,000, how would I get the maximum amount of truffles?

2) Which of the following would save more money if you bought these products regularly?

a. Replacing rice packets that cost \$15 per kg with corn packets that cost \$25 per kg.

b. Replacing wheat packets that cost \$36 per kg with soy packets that cost \$50 per kg.

3) Which of the following generators support the electric appliances the most efficiently in terms of energy?

a. A 500 watt generator that gives electricity for 5 hours.

b. A 1000 watt generator that gives electricity for 8 hours.

c. A 700 watt generator that gives electricity for 7 hours

d. A 1200 watt generator that gives electricity for 11 hours.

4) Robert wants to give a luggage bags to his friends. When he went to shop, he found different sizes of bags with different holding capacities.

Small – 4 kg for \$350 Medium – 10 kg for \$600 Large – 18 kg for \$1000

If Robert has \$2400, which combination of bags would be able to store the most things most cost effectively?

5) Kelly went shopping at the market. There she bought fruit baskets which were in different sizes.

Small – 5 kg for \$10 Medium – 8 kg for \$18 Large – 12 kg for \$24

If she has \$50 to spend, what combination of fruit would weigh the most?

