

Name \_\_\_\_\_

Date \_\_\_\_\_

## Quantities and Descriptive Modeling - Independent Practice Worksheet 2

Complete all the problems.

1) Which of the following would save more time over a year?

- a. Replacing a whirlpool washing machine that washes 25 items of clothing per hour with a LG washing machine that washes 35 items of clothing per hour.
- b. Replacing a Videocon washing machine that washes 30 items of clothing per hour with a Samsung washing machine that washes 45 items of clothing per hour.

2) Which of the following would save more gas over a year?

- a. Replacing a mo-ped that gets 15 miles per gallon with a Harley Davidson that can travel 10 miles per gallon.
- b. Replacing a car that can travel 20 miles per gallon with a car that can travel 25 miles per gallon.

3) For New Year, John wants to decorate his house with the decorative lighting. He needs 30ft of lighting at the front of his house.

But he saw many lengths in the market.

8 foot - \$ 16 (On Special)

12 foot - \$ 26

20 foot - \$ 38

What is the most cost-effective way to light the 30 foot length?

4) You need to upgrade the products in your store. Which of the following is the most cost-effective?

- a. Replacing Nescafe coffee that costs \$800 per kg with Ebon coffee that costs \$1000 per kg.
- b. Replacing tea that costs \$500 per kg with Mega Tea that costs \$700 per kg.

5) Ron is an interior designer with a showroom of wooden things. In this workroom he uses many boxes of adhesive for pasting the furniture.

Small – 25 kg for \$80

Medium – 40 kg for \$150

Large – 70 kg for \$220

If Ron has \$550, which combination of boxes would be the most cost-effective?

