Lesson 11 Practice Problems

1. A car dealership pays $8,350 for a car. They mark up the price by 17.4% to get the retail price. What is the retail price of the car at this dealership?

2. A store has a 20% off sale on pants. With this discount, the price of one pair of pants before tax is $15.20. What was the original price of the pants?

   A. $3.04

   B. $12.16

   C. $18.24

   D. $19.00

3. Lin is shopping for a couch with her dad and hears him ask the salesperson, "How much is your commission?" The salesperson says that her commission is $5\frac{1}{2}\%$ of the selling price.

   a. How much commission will the salesperson earn by selling a couch for $495?

   b. How much money will the store get from the sale of the couch?

4. A college student takes out a $7,500 loan from a bank. What will the balance of the loan be after one year (assuming the student has not made any payments yet):

    a. if the bank charges 3.8% interest each year?

    b. if the bank charges 5.3% interest each year?

(From Unit 4, Lesson 9.)

5. Match the situations with the equations.

    a. Mai slept for x hours, and Kiran slept for $\frac{1}{10}$ less than that.

    b. Kiran practiced the piano for x hours, and Mai practiced for $\frac{2}{5}$ less than that.

    c. Mai drank x oz of juice and Kiran drank $\frac{4}{3}$ more than that.

    d. Kiran spent x dollars and Mai spent $\frac{1}{4}$ less than that.

    e. Mai ate x grams of almonds and Kiran ate 1.5 times more than that.

    f. Kiran collected x pounds of recycling and Mai collected $\frac{3}{10}$ less than that.

    g. Mai walked x kilometers and Kiran walked $\frac{3}{8}$ more than that.

    h. Kiran completed x puzzles and Mai completed $\frac{3}{5}$ more than that.

$y = 2.33x$

$y = 1.375x$

$y = 0.6x$

$y = 0.9x$

$y = 0.75x$

$y = 1.6x$

$y = 0.7x$

$y = 2.5x$

(From Unit 4, Lesson 5.)

Grade 7 Unit 4

Lesson 11

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