

Name: KEY

## Unit 5 Review Activity

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### Mixed Review

1) What is 5% of 2,800?

140

2) What is 60% of 3,290?

1,974

3) An old pack of toothpicks contains 2,000 toothpicks. The new packaging contains 2,400 toothpicks. What is the percent of change?

$$400/2000$$

20% increase

4) Your uncle used to weigh 220 pounds but lost weight and now weighs 190 pounds. What was his percent of change?

$$30/220$$

14% decrease

5) You paid \$9.63 for your meal. This total included a 7% tax. What was the cost of the meal before tax?

$$1.07x = 9.63$$

\$9

6) A pair of shoes is on sale for \$47.99. If this price included a 20% discount, what was the original cost of the shoes?

$$0.80x = 47.99$$

\$59.99

7) A car dealership hopes to sell 18 cars this month. At the end of the month, they have sold a total of 24 cars. What percent of their goal did they sell?

$$24/18$$

133%

8) Your coin collection includes a total of 208 coins. If 28 of the coins are made of silver, what percent of the collection is NOT made of silver?

$$180/208$$

87%

## Auto Loan:

# CARmax<sup>®</sup>

You plan to purchase a new car. Select one of the available models and calculate the cost of an auto loan. Your loan should be for the entire cost of the car, including sales tax.

$$\text{Wrangler: } 26995 \cdot 1.0725 = \$28,952.14 \quad \$4,762.63$$

$$I = 28,952.14 \cdot 0.0329 \cdot 5$$

$$\text{Mustang: } 25,585 \cdot 1.0725 = \$27,439.91 \quad \$4,513.87$$

$$I = 27,439.91 \cdot 0.0329 \cdot 5$$

$$\text{Silverado: } 28,300 \cdot 1.0725 = \$30,351.75 \quad \$4,992.86$$

$$30,351.75 \cdot 0.0329 \cdot 5 = I$$

$$\text{WRX: } \quad \quad \quad \$4,762.63$$

How much interest will you be charged?

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## Television Purchase:



Find the new price of one of the televisions on sale. Be sure to include sales tax in your total.

$$50 \text{ inch: } 699.99 \cdot 0.75 = 524.99 \cdot 1.0725 = \$563.05$$

$$49 \text{ inch: } 849.99 \cdot 0.75 = 637.49 \cdot 1.0725 = \$683.71$$

$$65 \text{ inch: } 1,999.99 \cdot 0.75 = 1499.99 \cdot 1.0725 = \$1,608.74$$

$$75 \text{ inch: } 2,799.99 \cdot 0.75 = 2099.99 \cdot 1.0725 = \$2,252.24$$

How much are you charged at the register?

## Clothing Purchase:



Choose one sale item to purchase. Find the sale price and be sure to include sales tax in your total.

$$\text{Mens Shoe: } 89.99 \cdot 0.5 = 45.00 \cdot 1.0725 = \$48.26$$

$$\text{Womens Shoe: } 84.99 \cdot 0.5 = 42.50 \cdot 1.0725 = \$45.58$$

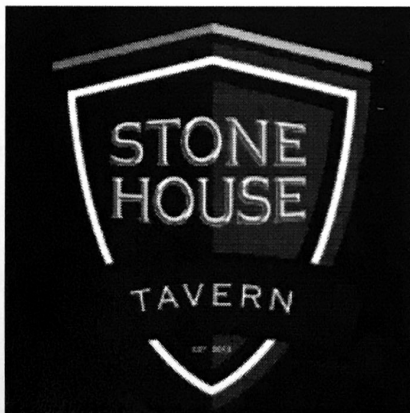
$$\text{Mens Jacket: } 60 \cdot 0.5 = 30 \cdot 1.0725 = \$32.18$$

$$\text{Womens Jacket: } 75 \cdot 0.5 = 37.50 \cdot 1.0725 = \$40.22$$

How much are you charged at the register?

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## Restaurant Purchase:



Choose four items to purchase. Find the total, including tax. You will then tip your server based on the taxed total.

Answers will vary.

What is your total cost, including tax and tip?