Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I can: rewrite expressions to help you solve markup problems

A ***markup*** is one type of percent increase. With a **markup**, the price goes **up**.

***Markup Amount*** is the additional amount a store wants to charge the **customer** to **buy** their product.

Example:

A store buys soccer balls for $8. The store’s markup is 55%

Step (1): ***Find the markup***

 **$8 x 0.55 = $4.40**

 **(original amount) x (markup percent) = markup amount**

Step (2): ***Find the retail price/sales price***

 **$8 + $4.40 = $12.40**

 **(original amount) + (markup amount) = retail price/sales price**

Writing the Expression:

* First, we either have a value or an unknown as our original amount in the scenario
* Second, we are given a markup percent that must be changed to a decimal before putting it into the expression
* Third, we will use this information to write the expression

Scenario:

1. Rick buys remote control cars to resell. He applies a markup of 30%.
2. Write an expression that represent the retail price of the cars.
3. First, we look to see if there is an original amount, if not we use a variable.
4. Second, we look for the markup percent \_\_\_\_\_\_\_\_\_\_ then we convert to a decimal.
5. Third, we write the expression:

\_\_\_\_\_\_\_\_\_\_\_\_\_ + (\_\_\_\_\_\_\_\_\_\_\_\_\_)(\_\_\_\_\_\_\_\_\_\_\_\_\_)

original amount + (original amount)(markup percent)

1. If Rick buys a remote-control car for $39, what is his selling price?
2. Aiden buys dress pants from a clothing company for d dollars. He then sells each pair of pants in his men’s clothing shop at a 40% markup.
3. Write the markup percent as a decimal:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Write an expression for the retail price of a pair of dress pants:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the retail price of the pants that Aiden purchased for $56.00?
6. How much did Aiden add to the original price of the pants?
7. A sneaker shop buys Nike sneakers from a Nike manufacturer for s dollars each, and then sells the sneakers at a 500% markup.
8. Write the markup percent as a decimal:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Write an expression for the retail price of a pair of sneakers:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. What is the retail price of a pair of sneakers if the shop buys them for $35?
11. How much is added to the original price of a pair of sneakers?
12. A clothing store bought packages of three pairs of socks for p dollars. The store owner marked up the price by 95%.
13. Write the markup percent as a decimal:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. Write an expression for the retail price of a package of socks:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. What is the retail price of a package of socks that was bought by the store for $4.00?
16. How much is added to the original price of a package of socks?
17. A store buys cases of cameras from a supplier for c dollars. The owner decides on a markup of 70%.
18. Write the markup percent as a decimal:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
19. Write an expression for the retail price of a camera:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
20. What is the retail price of a camera that was purchased by the store for $80?
21. How much is added to the original price of the camera?
22. A sports store buys bicycles from a supplier for b dollars. What is the retail price for the bicycles that the manager buys for $109 and $140 after a 65% markup?

1. A store marks up sweaters by 23%. Find the retail price of a sweater originally priced at $48.
2. Designer sunglasses are bought by Macy’s for $32 a pair. Macy’s mark ups the sunglasses by 89%. What is the retail price of the sunglasses?
3. Walmart bought TV’s from a manufacturer for $232. Walmart decides to mark up these TV’s by 175%. What is the retail price of the TV’s?
4. You are shopping for the perfect gift for your best friend. You decide to purchase a gold chain. The jewelry store purchased gold chains from their wholesaler for $49. They mark up the gold chain by 55%. How much do you pay for the gold chain at the jewelry shop?

***Find the Retail Price for questions 11 – 20***.

1. Original price: $129; markup: 12%
2. Original price: $39.50; markup: 32%
3. Original price: $48.95; markup: 57%
4. Original price: $325.50; markup; 17.5%
5. Original price: $13.95; markup; 78%
6. Original price: $67.99: markup; 25.5%
7. Original price: $83; markup; 41%
8. Original price: $212; markup; 63%
9. Original price: $95; markup; 84%
10. Original price: $28; markup; 145%