

Name \_\_\_\_\_

Date \_\_\_\_\_

## Rewriting Expressions - Independent Practice Worksheet

Complete all the problems. Make sure to draw pictures to help you solve the problems.

1. Joe Smore weighs 105 pounds. Every year his weight increases by 3 pounds. What will be his weight next year?



2. Joshua sells 13 toys per hour. Sarah sells 16 toys per hour. This week Sarah sold an additional 20 toys. Write an expression that represents the weekly sales of both  $J$  = the number of hours that Joshua sold toys for this week and  $S$  = the number of hours Sarah worked this week?



3. Hannah likes candy. She wants to purchase some candies. All varieties of candy are \$4.20 each. Hannah buys one mango candy and one apple candy. Write an expression that represents the total cost,  $T$ , of the candy if  $m$  represents the number of mango candies and  $a$  represents the number of apple candies.



4. Victoria has a dog. The dog's tail is 2 inches long. Every year his tail grows by 5%. What will be his tail's length next year?



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5. Anthony purchases two bags. The price of all bags is \$5.20. Anthony purchases one school bag and one hand bag. Write an expression that represents the total cost,  $T$ , of the bag if  $s$  represents the number of school bags and  $h$  represents the number of hand bags.



6. David made 30 cups of tea per hour. Andrew made 35 cups of coffee per hour. This week David made an additional 10 cups of tea. Write an expression that represents the weekly cups of tea and coffee.  $D$  = the number of hours that David made tea this week.  $A$  = the number of hours Andrew worked this week?



7. The area of a sea horse is 108 cm. Every day it grows by 2%. What will be the sea horse's area after 2 days?

8. All varieties of a clock are \$3.20. Justin buys an alarm clock and a wall clock. Write an expression that represents the total cost,  $T$ , of the clocks if  $a$  represents the number of alarm clocks and  $w$  represents the number of wall clocks.



9. Rachel fills 13 water bottles per hour. Alyssa fills 15 bottle of water per hour. This week Alyssa filled an additional 5 bottles of water. Write an expression that represents the weekly water of bottle filled.  
 $R$  = the number of hours that Rachel filled bottles this week.  
 $A$  = the number of hours Alyssa filled the bottles this week.

10. The upper atmospheric temperature of the Earth is  $200^{\circ}$  C. Every year it goes up by 4%. What will be the temperature next year?

