

Name \_\_\_\_\_

## ✓ Checkpoint

### Concepts and Skills

Write an integer to represent the situation. (pp. P271–P272)

1. a shark 125 feet below sea level \_\_\_\_\_      2. a bank deposit of 300 dollars \_\_\_\_\_

Write an integer to represent the situation. Then, tell what 0 represents. (pp. P271–P272)

Situation	Integer	What Does 0 Represent?
3. a gain of 13 yards by a football team	_____	
4. a temperature of 25 degrees below zero	_____	

Write an expression. Then evaluate the expression for the value given. (pp. P273–P274)

5. Miki has  $n$  dollars. Dora has 3 more dollars than Miki. How many dollars does Dora have? Evaluate for  $n = 14$ .  
\_\_\_\_\_
6. Chip has  $s$  shells. Gina has 4 times as many shells as Chip. How many shells does Gina have? Evaluate for  $s = 6$ .  
\_\_\_\_\_

Of 1, 3, 4, and 8, which numbers are solutions for the inequality? (pp. P275–P276)

7.  $a < 7$

8.  $b \geq 3$

9.  $c > 4$

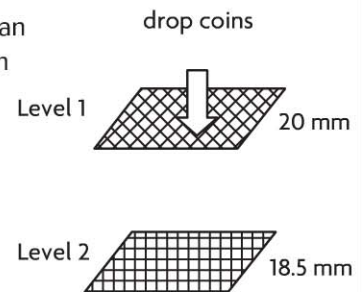
10.  $d \leq 8$

### Problem Solving

Filters are set up to sort pennies, dimes, and nickels. A penny is 19 mm wide, a dime is 17.9 mm wide, and a nickel is 21 mm wide. Coins less than 20 mm wide will pass through the first level, and coins less than 18.5 mm wide will pass through the second level. (pp. P275–P276)

11. If you drop a large number of all 3 coins from above, which coins will be caught at Level 1? Which coins will pass through?  
\_\_\_\_\_

12. Which coins will be caught at Level 2? Which coins will pass through? \_\_\_\_\_



Fill in the bubble completely to show your answer.

13. The lowest temperature ever recorded in North Dakota was 60 degrees below zero Fahrenheit. Which integer represents the temperature? (pp. P271–P272)
- (A) 0  
(B) 60  
(C)  $-60$   
(D)  $-0$
14. In football, a team receives 3 points for each field goal it makes. Which expression shows the number of points a team will receive for making  $f$  field goals? (pp. P273–P274)
- (A)  $3 + f$   
(B)  $3 \times f$   
(C)  $f - 3$   
(D)  $f \div 3$
15. The elevation of Central City is 84 feet above sea level. Which integer is the opposite of 84? (pp. P271–P272)
- (A) 48  
(B)  $+84$   
(C)  $-48$   
(D)  $-84$
16. Uncle Louie is at least 1 inch shorter than Miriam, and at least 2 inches taller than Jeffrey. Jeffrey's height is 64 inches. Miriam is not more than 5 inches taller than Jeffrey. Which answer choice could be Uncle Louie's height? (pp. P275–P276)
- (A) 65 inches  
(B) 67 inches  
(C) 69 inches  
(D) 70 inches