

PART 3 Concepts and Application

Choose the correct answer.

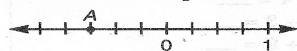
16. If $y = 3$, which number sentence is true?
 (A) $4y < 10$ (C) $7y > 20$
 (B) $7y < 20$ (D) $7y = 20$
17. If $4x - 2 = 10$, then $x = \square$.
 (A) 6 (C) 3
 (B) 2 (D) 5
18. The nature club makes twice as much money selling nature calendars as it does selling nature cards. If the club made \$54 on the sale of calendars, which expression could be used to find out how much money was made on the sale of cards?
 (A) $n + 54 = 2$ (C) $2n = 54$
 (B) $54 - 2n$ (D) $54n - 2n$
19. On January 1, the temperature was 0° . The temperature rose 2° each day for 3 days. Then the temperature fell 4° each day for 4 days. What was the temperature at the end of the 7 days?
 (A) -10° (C) -16°
 (B) -2° (D) 10°
20. Which equation is satisfied by the pairs of numbers in the table?

x	4	6	8	10
y	-2	0	2	4

- (A) $y = 6 - x$ (C) $y = x - 6$
 (B) $y = x + 6$ (D) $y = x + 2 + 1$
21. Which expression does not correspond with the equation $n + 6 = 35$?
 (A) The sum of a number and 6 is 35.
 (B) A number decreased by 6 is 35.
 (C) Six more than a number is 35.
 (D) The total of 6 and a number is 35.

22. In 1923 a low temperature of -54°C was recorded in Quebec. In 1921 a high temperature of 40°C was recorded. What is the difference between the high and the low temperature?
 (A) 14°C (C) 94°C
 (B) -14°C (D) -94°C
23. There are 120 calories in 1 cup of low-fat milk. Adrienne drank 2 cups of milk and ate 2 slices of toast. This was a total of 435 calories. Which expression could be used to find the number of calories in 1 slice of toast?
 (A) $435 - 120 \div 2$
 (B) $(435 \div 2) + 120$
 (C) $(435 - 120) \div 2$
 (D) $435 - (2 \times 120)$
 2

24. What is the value of point A?



- (A) $-\frac{1}{2}$ (C) $-\frac{3}{4}$
 (B) $-\frac{2}{3}$ (D) $-1\frac{1}{3}$
25. Study the input-output chart. What are the missing numbers?

Input	Output
3	8
4	11
10	29
5	?
?	20
20	?

- (A) 13, 6, 60 (C) 11, 15, 40
 (B) 14, 7, 59 (D) 19, 13, 39

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