

1. Which rule describes the ordered pairs in this table?

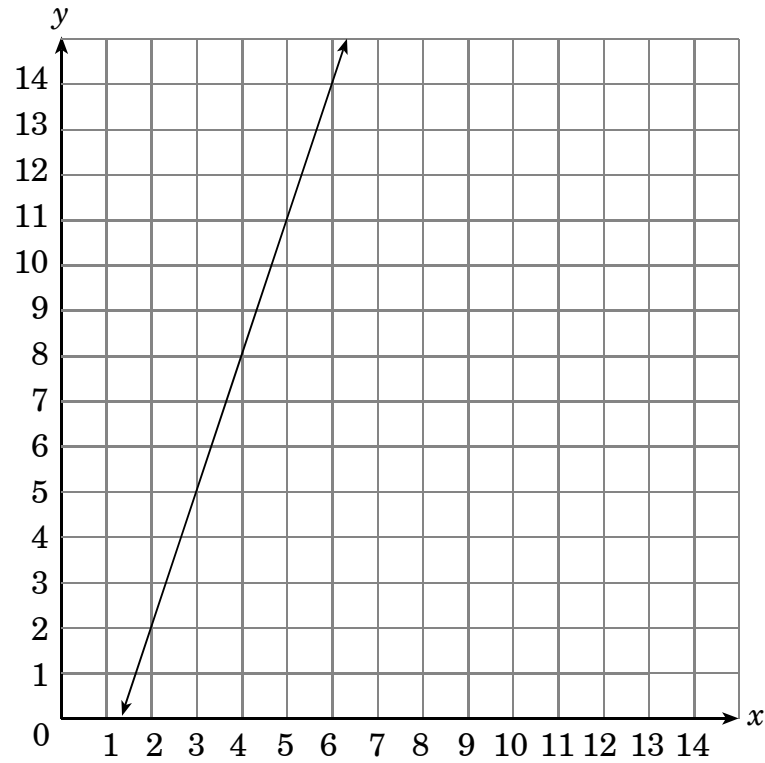
x	y
1	1
2	3
3	5
4	7

- A $y = 2x - 1$
- B $y = \frac{x}{2} + 2$
- C $x = 3y - 2$
- D $x = y - 1$
2. Smith's Video Store charged \$2.40 for each video rented plus a \$1.00 surcharge. The store decided to lower the surcharge to \$0.50. Which equation represents the new cost of renting m videos?
- A $P = 1.90m + 1.00$
- B $P = 1.90m + 0.50$
- C $P = 2.40m + 0.50$
- D $P = 2.40m + 1.50$

3. Which set contains only ordered pairs that satisfy $y = 2x + 3$?

- A $\{(0, 2), (1, 3), (2, 4)\}$
- B $\{(0, 2), (1, 5), (2, 8)\}$
- C $\{(0, 3), (1, 4), (2, 5)\}$
- D $\{(0, 3), (1, 5), (2, 7)\}$

4. What is the relationship between x and y for the points on the line graphed below?



- A $y = 2x$
- B $y = 2x + 2$
- C $y = 3x - 4$
- D $y = 4x - 7$
-

5. Simplify: $6(a - 2b) + 3(4a + b)$

- A $18a - 15b$
- B $18a - 11b$
- C $18a - 9b$
- D $18a - b$

6. For the animal shelter, Elena purchased five dog leashes for \$9.98 each, five bags of dog food for \$24.99 each, and five dog crates for x dollars each. Which equation could be used to determine Elena's total cost, T ?
- A $5 + \$9.98 + 5 + \$24.99 = T$
- B $\frac{\$9.98 + \$24.99}{5} = T$
- C $(\$9.98 + \$24.99 + x)5 = T$
- D $5 + (\$9.98 + \$24.99 + x) = T$
7. Jason walks at a rate of 1.5 meters per second. Which equation can be used to find how much time, t , in seconds it will take Jason to walk 2.7 kilometers?
- A $2.7 \div 1.5 = t$
- B $1.5 \times t = 2,700$
- C $2,700 - 1.5 = t$
- D $1.5 + t = 2.7$
8. In the summer, Ana earns \$6.00 an hour taking care of children. She works from 8:00 a.m. until 11:00 a.m. on Wednesday and Thursday and from 7:00 a.m. until 9:00 a.m. on Friday and Saturday. Which number sentence can be used to find the total amount of money (m , in dollars) Ana earns per week?
- A $(3 + 2) \times 6 = m$
- B $6 \times (3 + 3 + 2 + 2) = m$
- C $(6 + 3) \times (6 + 2) = m$
- D $(8 + 11 + 7 + 9) \times 6 = m$
9. Melissa divided 5 dozen flowers into 3 baskets to give as presents. The first basket had $(x + 8)$ flowers, the second basket had $(2x)$ flowers, and the third basket had $(x + 12)$ flowers. How many flowers were in the basket that had the **most** flowers?
- A 20
- B 22
- C 32
- D 40

10. Trent is using the linear equation $x + y = 2$ to plot a line on graph paper. If $(x, -4)$ are the coordinates of a point on the line, what is the value of x ?

A -4
B -3
C 5
D 6

11. What is the solution for this inequality?

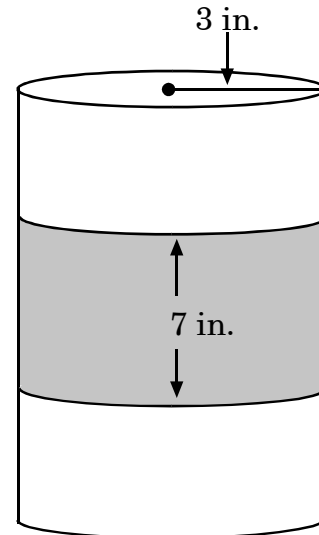
$$-3w + 3 \geq 18$$

A $w \geq -7$
B $w \leq -7$
C $w \geq -5$
D $w \leq -5$

12. Which ordered pair, (x, y) , makes the equation $y = x + 3$ true?

A $(3, 0)$
B $(4, 1)$
C $(2, 5)$
D $(6, 4)$

13. A cylindrical can has a 7-in.-wide label that wraps around the can. The can has a radius of 3 in.



What is the **approximate** area of the label?

A 33.0 square inches
B 66.0 square inches
C 131.9 square inches
D 197.9 square inches

14. What is the **approximate** volume of a cone with a radius of 6 inches and a height of 9 inches? $V = \frac{1}{3}\pi r^2 h$
- A 113.04 in.³
- B 339.29 in.³
- C 1,017.88 in.³
- D 1,356.48 in.³
15. The formula $F = 1.8C + 32$ can be used to convert temperatures from degrees Celsius (C) to degrees Fahrenheit (F). What Fahrenheit temperature is equivalent to -45 degrees Celsius?
- A -49°F
- B -43°F
- C 7.2°F
- D 113°F

End of Goal 5 Sample Items

In compliance with federal law, including the provisions of Title IX of the Education Amendments of 1972, the Department of Public Instruction does not discriminate on the basis of race, sex, religion, color, national or ethnic origin, age, disability, or military service in its policies, programs, activities, admissions or employment.

