

1) $x + 15 = 96$

2) $82 + y - 11$

3) $5x = -8$

4) $\frac{a}{6} = 12$

5) $-4y - 16 = 36$

6) $81 = 2n - 36$

7) $\frac{x}{6} + 15 = -15$

8) $11 = \frac{b}{-5} - 18$

When solving one and two step linear equations, remember to show your transformation lines and properties of equality to earn maximum credit on the test

1) $x + 6 = 10$

2) $a - 9 = 15$



3) $3p = 27$

4) $\frac{t}{5} = 4$

5) $x - 9 = -15$

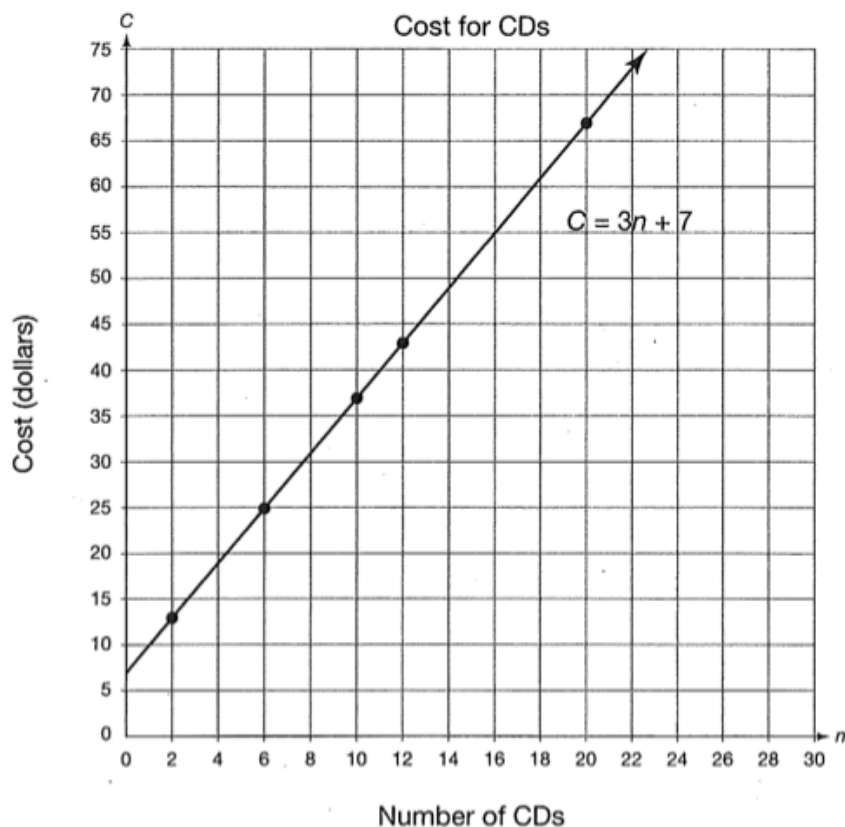
6) $-18 = -4x$

7) $\frac{1}{7}x = -4$

8) $x - -11 = -51$

Read the scenario below. Use the scenario to answer Questions 9 and 10.

An online music store is selling CDs for \$3 a piece and charges a flat shipping fee of \$7. The cost C for buying n CDs is given by the equation $C = 3n + 7$. Below is a graph of this equation.



9. Explain how you would use the graph to determine whether 14 is a solution to the equation $49 = 3n + 7$. Use complete sentences in your answer.
10. Determine whether 25 is a solution of the equation $75 = 3n + 7$ algebraically. Show all your work and use a complete sentence in your answer.

Read the scenario below. Use the scenario to answer Questions 12 through 15.

An interior decorator has asked a small linens company to make the bedspreads that she will use on the beds in a hotel she is decorating. The linens company already has 14 completed bedspreads. The interior decorator will need a total of 362 bedspreads for all of the beds in the hotel. The company can produce three and a half bedspreads each day.

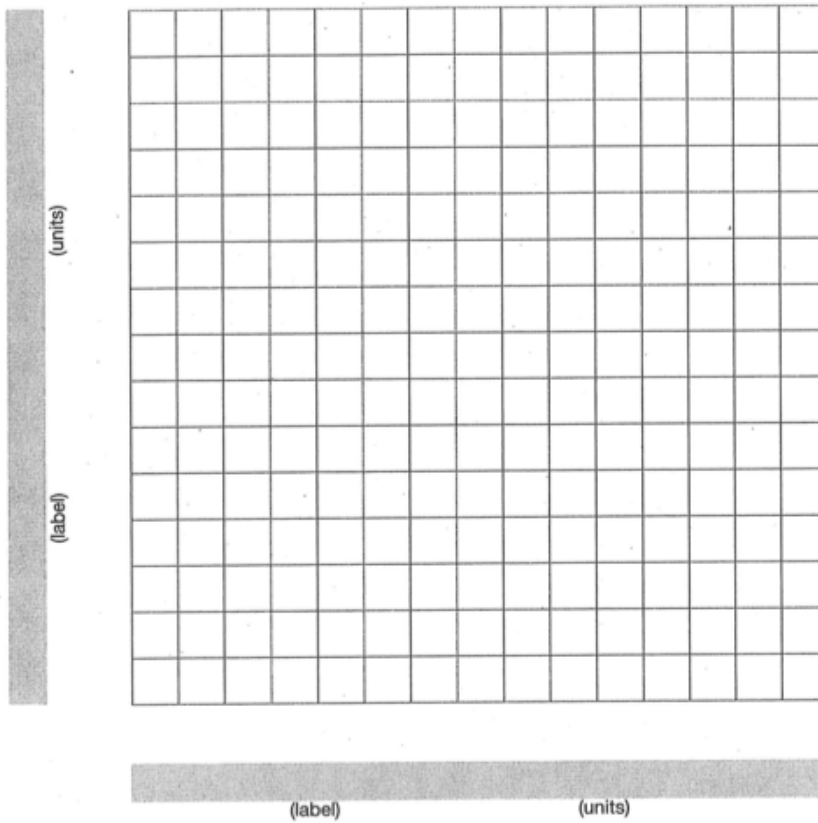
- 12 Write an equation that represents the number of completed bedspreads b in terms of the number of days d .

- 13 Complete the table of values that shows the relationship between the number of days and the number of completed bedspreads.

Labels	Time	Completed bedspreads
Units		
Expressions		
	0	
	5	
	10	
	25	
	50	

- 14 Use the grid on the next page to create a graph of the data from the table in Question 22. First, choose your bounds and intervals. Be sure to label your graph clearly.

Variable quantity	Lower bound	Upper bound	Interval



- 15 Use your graph to estimate when 7 bedspreads were completed. Use a complete sentence to explain how you found your answer.