

## Practice Test Unit 1

Name \_\_\_\_\_ Date \_\_\_\_\_

Find the next three (3) terms in the sequence.

1. -1, 4, 9, 14, 19,...

2. 2, 5, 11, 20, 32,...

3. 5, 2, -3, -10, -19,...

Solve each problem.

4. The fourth and fifth terms of a sequence are 32 and 48. If the second differences are a constant 4, what are the first five terms of the sequence?

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5. If the second differences of a sequence are a constant 6, the first of the first differences is 6, and the second term is 5, find the first five terms of the sequence.

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Find the  $n$ th and  $20^{\text{th}}$  term in the sequence.

6.

1	2	3	4	5	Nth	20
6	11	16	21	26		

7.

-1	0	1	2	3	Nth	20
-2	-1	2	7	14		

Make a table showing the value of each expression when the value of the variable is 1, 2, 3, 4 and 5.

8.  $-2t$

9.  $2r-8$

10.  $9p+2$

11.  $-7y-8$

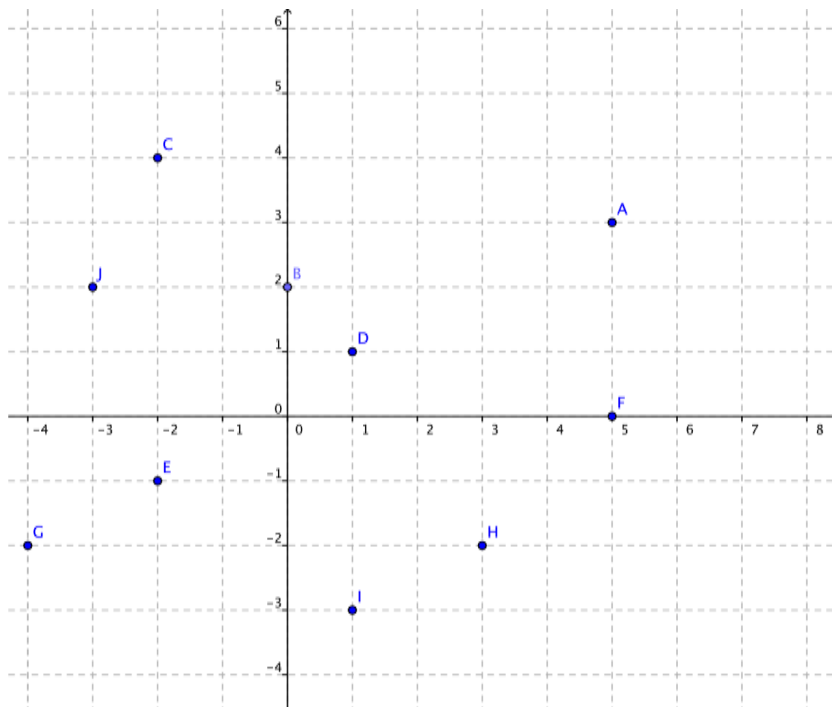
Evaluate each expression.

12.  $21 \times 16 + 31 \times 89$

13.  $4^3 \times 3 + [7 - (4^2 - 7)]$

14.  $\frac{4^2 - 8 \times \frac{1}{2}}{9 \times 2 \div 6}$

15.  $\left(\frac{3}{5} - \frac{2}{7}\right) \times \left(5 \times \frac{14}{2}\right)$



State the coordinates  
of the given points.

- 16. A \_\_\_\_\_
- 17. B \_\_\_\_\_
- 18. C \_\_\_\_\_
- 19. D \_\_\_\_\_
- 20. E \_\_\_\_\_
- 21. F \_\_\_\_\_
- 22. G \_\_\_\_\_
- 23. H \_\_\_\_\_
- 24. I \_\_\_\_\_
- 25. J \_\_\_\_\_

Plot the given coordinates and tell what quadrant the point lies in.

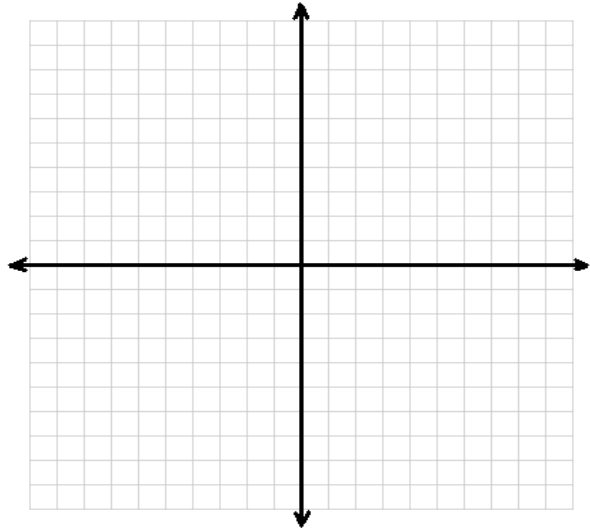
26. A(2,4)

27. B(4,-1)

28. C(-5,8)

29. D(0,-4)

30. E(-2,-6)



Suppose that the cost to order theater tickets to a concert is found using the equation

$C=25t+10$ , where  $C$  is the cost and  $t$  is the number of tickets.

31. According to the equation, how much does each ticket cost?

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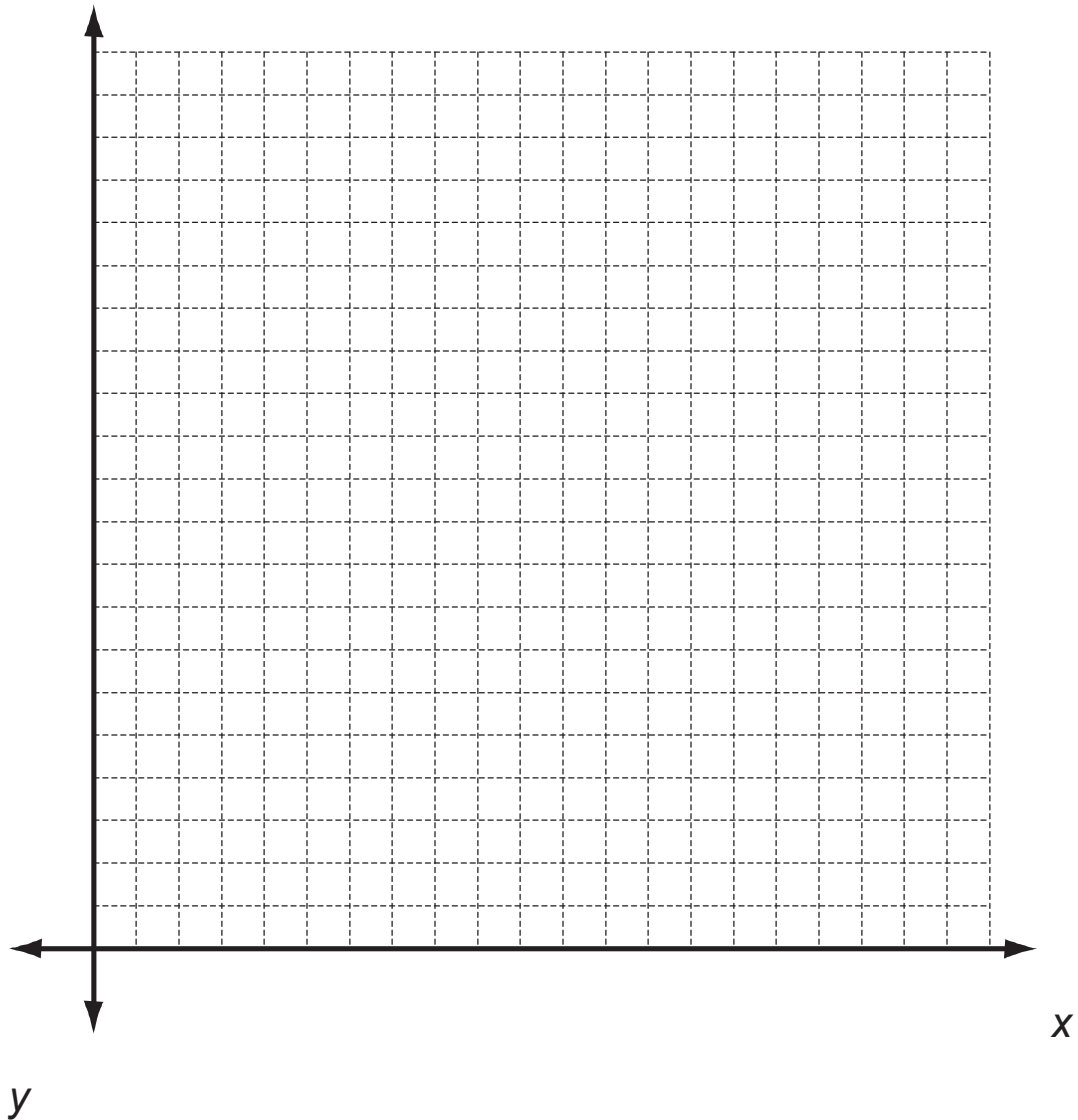
32. How much would 13 tickets cost? \_\_\_\_\_

33. What is the maximum number of tickets that you could order to keep the total cost at or below \$435.00 \_\_\_\_\_

Graph the following data using a scatter plot.

Student GPA	3.1	2.4	2.0	3.8	2.2	3.4	2.9	3.7	3.5
Hours per week of TV	14	10	20	7	25	9	15	4	21

33. Use the grid to make a scatter plot of the student GPA versus hours of TV watching. Make sure to use proper scales.



34. What kind of correlation does this data display? What does this mean?

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