TEST NAME: **NAMSCM811314G-8**
TEST ID: **129120**
GRADE: **08**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

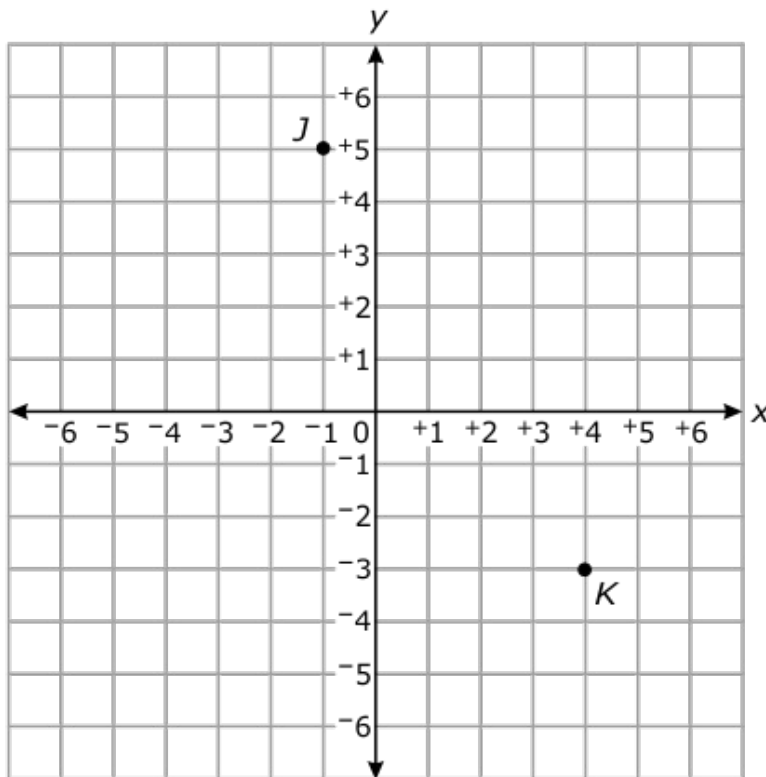1. Point *R* is located at (⁻3, 3), and point *T* is located at (1, ⁻2). What is the **approximate** distance between point *R* and point *T*?

   A. 5.7 units

   B. 6.4 units
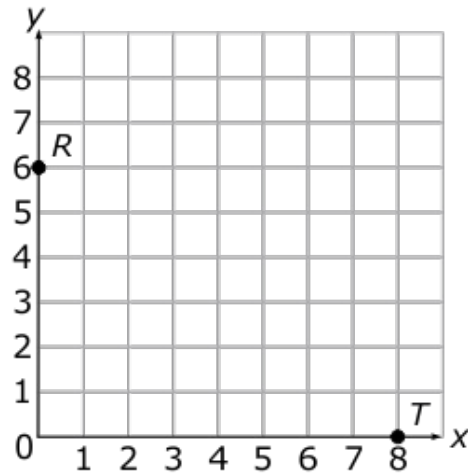
   C. 9.0 units

   D. 41.0 units

2. Triangle *JKL* has vertices *J*(0, 7), *K*(0, 1), and *L*(4, 7). What is the **approximate** perimeter of the triangle?

   A. 7.2 units

   B. 12.4 units

   C. 17.2 units

   D. 18.4 units

3. What is the **approximate** distance between points J and K?

A. 8.4 units

B. 9.4 units

C. 10.4 units

4. Triangle KLM has vertices at $K(^-2, \ ^-3)$, $L(^-2, \ ^-1)$, and $M(6, \ ^-1)$. What is the **approximate** perimeter of triangle KLM?

A. 8 units

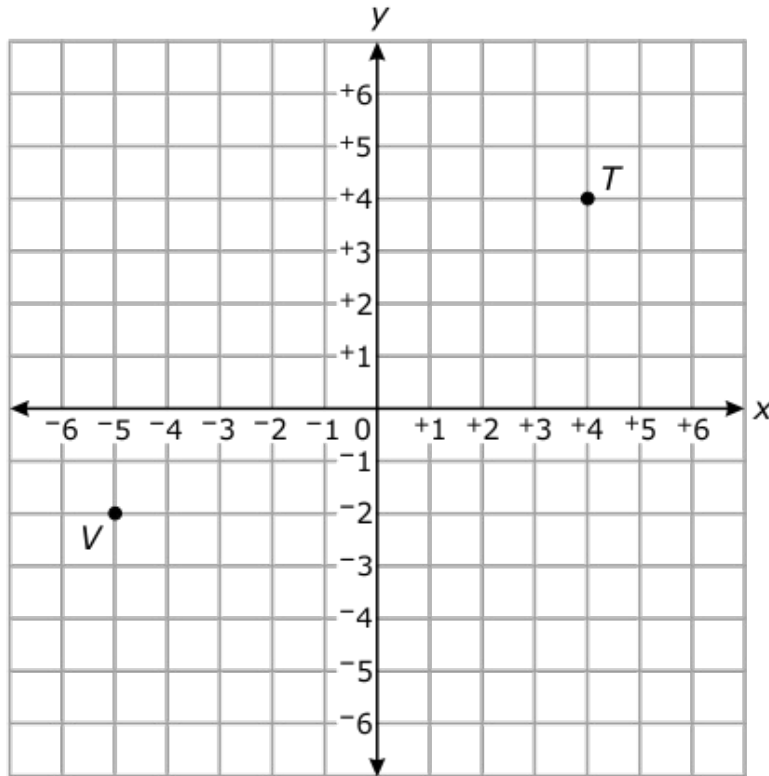B. 16 units

C. 18 units

D. 19 units

5. What is the distance between point *R* and point *T*?

- A. 9 units
- B. 10 units
- C. 12 units
- D. 14 units

6. Triangle *JKL* has vertices at *J*($^-$4, 3), *K*(2, $^-$5), and *L*($^-$4, $^-$5). What is the perimeter of triangle *JKL*?

- A. 2 units
- B. 10 units
- C. 14 units
- D. 24 units

7. The vertices of a triangle are *P*(4, 7), *Q*($^-$1, 7), and *R*(4, $^-$5). What is the perimeter of triangle *PQR*?

- A. 13 units
- B. 16 units
- C. 28 units
- D. 30 units

8. What is the **approximate** distance between the points (2, 3) and (5, 6)?

   A. 8.9 units

   B. 5.7 units

   C. 4.2 units

   D. 1.4 units

9. Triangle *PQR* has vertices at *P*(¯2, 1), *Q*(¯2, ¯4), and *R*(4, ¯4). What is the **approximate** length of line segment *PR*?

   A. 8 units

   B. 7 units

   C. 6 units

   D. 5 units

10. Triangle *FGH* has vertices *F*(1, ¯5), *G*(6, 0), and *H*(1, 0). What is the **approximate** perimeter of this triangle?

   A. 13.2 units

   B. 17.1 units

   C. 19.3 units

   D. 23.5 units

11. What is the **approximate** distance between points *T* and *V* on the graph below?

A. 9 units

B. 10 units

C. 11 units

12. Triangle *XYZ* has vertices at *X*(0, 0), *Y*(0, ⁻7), and *Z*(5, 0). What is the **approximate** length of segment *YZ*?

A. 5.0 units

B. 8.6 units

C. 9.4 units

D. 11.2 units

13. Triangle *EFG* has vertices at *E*(‾3, 0), *F*(3, 0), and *G*(3, 8). What is the length of line segment *EG*?

   A.   8 units

   B.   10 units

   C.   14 units

14. Square *PQRS* has the vertices *P*(‾3, 3), *Q*(3, 3), *R*(3, ‾3), and *S*(‾3, ‾3). What is the ***approximate*** length of diagonal *QS*?

   A.   6.0 units

   B.   8.5 units

   C.   10.5 units

   D.   12.0 units

15. What is the ***approximate*** distance between the points (‾9, ‾9) and (1, 3)?

   A.   15.6 units

   B.   22.1 units

   C.   31.2 units

   D.   44.2 units

16. What is the distance between the points (3, 5) and (‾1, 2)?

   A.   3 units

   B.   4 units

   C.   5 units

   D.   25 units

17. Triangle *RST* has vertices *R*(⁻1, 2), *S*(5, 0), and *T*(⁻3, ⁻2). What is the ***approximate*** length of line segment *ST*?

    A.   8.2 units

    B.   7.4 units

    C.   6.3 units

    D.   5.7 units

18. A circle has a diameter that extends from the point (⁻5, 7) to the point (6, ⁻3). What is the ***approximate*** length of the diameter of the circle?

    A.   10.5 units

    B.   11.0 units

    C.   14.9 units

    D.   21.0 units

19. Triangle *XYZ* has vertices at *X*(1, ⁻2), *Y*(⁻4, ⁻2), and *Z*(⁻4, 10). What is the length of line segment *XZ*?

    A.   11 units

    B.   12 units

    C.   13 units

20. Triangle *PQR* is shown below.
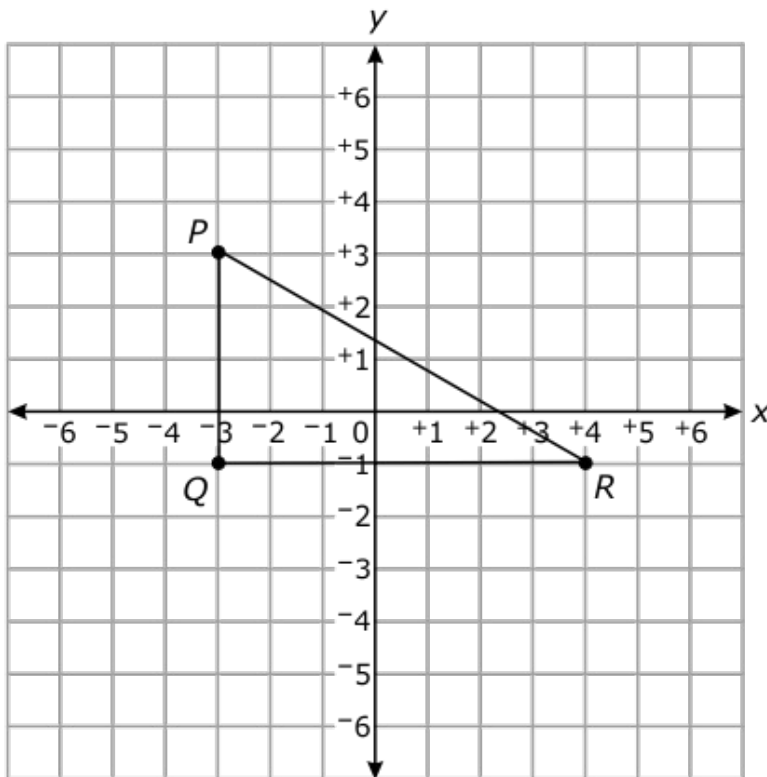
What is the **approximate** length of line segment *PR*?

A. 7 units

B. 8 units

C. 11 units

21. Triangle *EFG* is located on the coordinate plane at *E*(⁻5, 9), *F*(⁻5, 1), and *G*(6, 1). What is the **approximate** perimeter of triangle *EFG*?

A. 13.6 units

B. 28.5 units

C. 32.6 units

D. 204.5 units

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22. A diameter of a circle extends from the point (6, 12) to the point (1, 8). What is the **approximate** length of the radius of the circle?

   A   3.2 units

   B.   4.0 units

   C.   5.0 units

   D.   6.4 units

23. On a map, a city is located at (2, 9) while another city is located at (⁻2, ⁻4). If 1 unit is equal to 10 miles, **approximately** how many miles apart are these two cities?

   A   6 miles

   B.   12 miles

   C.   136 miles

   D.   550 miles

24. Triangle *XYZ* has vertices at *X*(⁻8, ⁻3), *Y*(⁻2, ⁻3), and *Z*(⁻2, ⁻10). What is the **approximate** perimeter of triangle *XYZ*?

   A   9.2 units

   B.   16.6 units

   C.   22.2 units

   D.   29.4 units

25. The vertices of a triangle are located at *R*(3, 4), *S*(3, ⁻1), and *T*(6, 4). What is the **approximate** length of line segment *ST*?

   A   5.8 units

   B.   7.8 units

   C.   34.0 units

   D.   61.0 units

26. Triangle *RST* has vertices at *R*(3, 1), *S*(3, 5), and *T*(6, 5). What is the perimeter of triangle *RST*?

    A.   5 units

    B.   7 units

    C.   12 units

    D.   15 units

27. Triangle *XYZ* has vertices located at *X*(3, 1), *Y*(3, 8), and *Z*(6, 1). What is the **approximate** length of *YZ*?

    A.   3.2 units

    B.   7.6 units

    C.   10.2 units

    D.   58.6 units

28. Triangle *PQR* has vertices *P*(8, 6), *Q*(8, ⁻9), and *R*(12, ⁻9). What is the **approximate** length of segment *PR*?

    A.   5.1 units

    B.   15.5 units

    C.   16.8 units

    D.   34.5 units

29. Triangle *JKL* has vertices at *J*(⁻3, ⁻4), *K*(⁻1, ⁻4), and *L*(⁻3, 2). What is the **approximate** length of line segment *KL*?

    A.   5.7 units

    B.   6.3 units

    C.   8.0 units

30. A line segment has endpoints located at (4, ⁻5) and (⁻6, 7). What is the **approximate** length of this line segment?
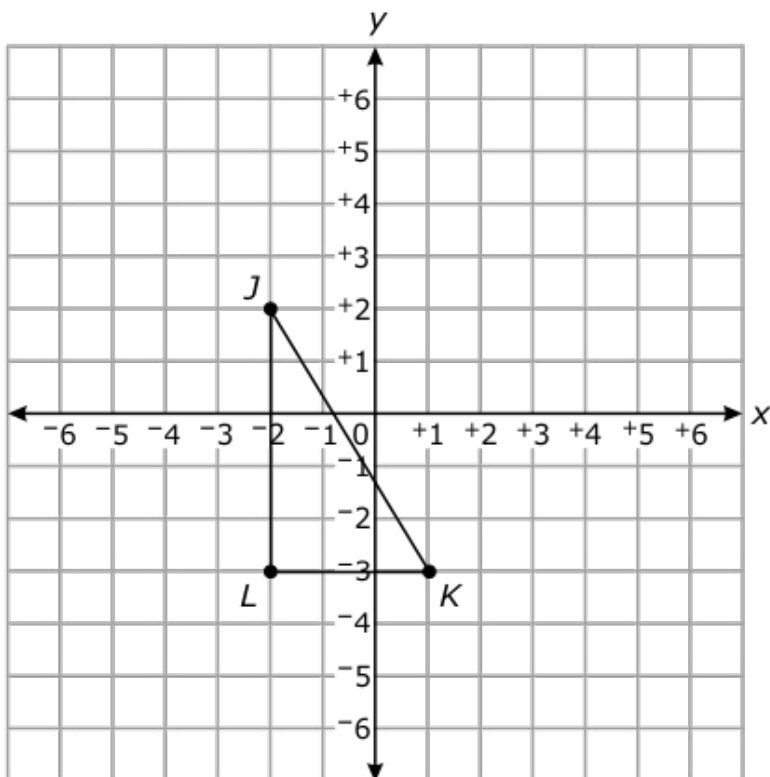
    A. 6.6 units

    B. 9.4 units

    C. 15.6 units

    D. 15.8 units

31. What is the **approximate** distance between points *E* and *F* on the graph below?
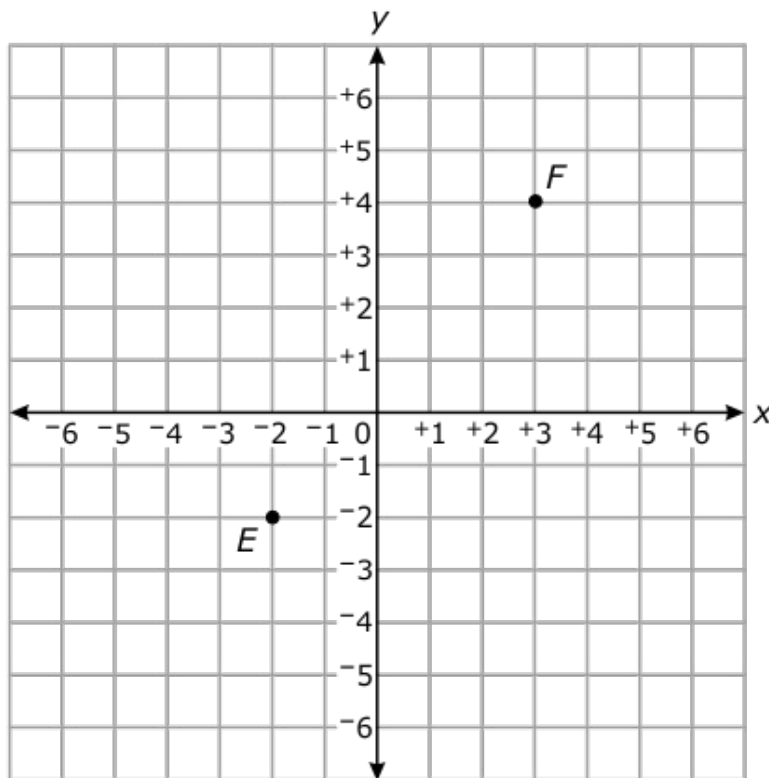
    A. 6 units

    B. 8 units

    C. 11 units

32. Triangle *JKL* is shown below.

What is the *approximate* length of line segment *JK*?

A. 6 units

B. 5 units

C. 4 units

33. Triangle *ABC* has coordinates *A*(⁻6, 0), *B*(⁻2, 0), and *C*(⁻2, ⁻7). What is the *approximate* perimeter of triangle *ABC*?

A. 8.1 units

B. 14.3 units

C. 19.1 units

D. 76.0 units

34. What is the distance between the points (⁻6, ⁻7) and (6, ⁻2)?

    A.   5 units

    B.   8 units

    C.   12 units

    D.   13 units

35. What is the distance between the points (1, ⁻2) and (⁻2, 2)?

    A.   5 units

    B.   6 units

    C.   7 units

36. What is the **approximate** distance between the points (⁻1, 2) and (7, 6)?

    A.   8 units

    B.   9 units

    C.   12 units

37. The endpoints of a line segment are located at (⁻4, 7) and (6, ⁻3). What is the length of the line segment?

    A. $\sqrt{218}$ units

    B. $\sqrt{200}$ units

    C. $\sqrt{50}$ units

    D. $\sqrt{2}$ units

38. The vertices of a triangle are located at L(4, ⁻3), M(1, ⁻3), and N(1, 0). What is the **approximate** perimeter of triangle LMN?

    A.   6.2 units

    B.   10.2 units

    C.   20.4 units

    D.   38.2 units

39. What is the distance between the points (⁻5, 1) and (3, ⁻5)?

   A   10 units

   B.   13 units

   C.   14 units

   D.   100 units

40. Triangle *XYZ* has vertices located at *X*(⁻5, 0), *Y*(⁻5, 5), and *Z*(3, 5). What is the **approximate** length of segment *XZ*?

   A   3.6 units

   B.   5.0 units

   C.   8.0 units

   D.   9.4 units

41. What is the **approximate** distance between (⁻4, 3) and (1, 2)?

   A   4.2 units

   B.   5.1 units

   C.   6.0 units

   D.   6.8 units

42. What is the **approximate** distance between points *P* and *R*?
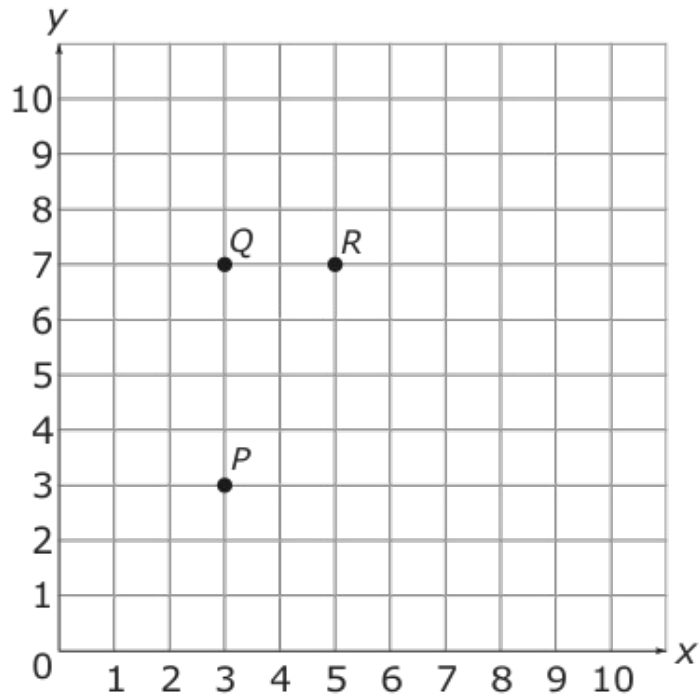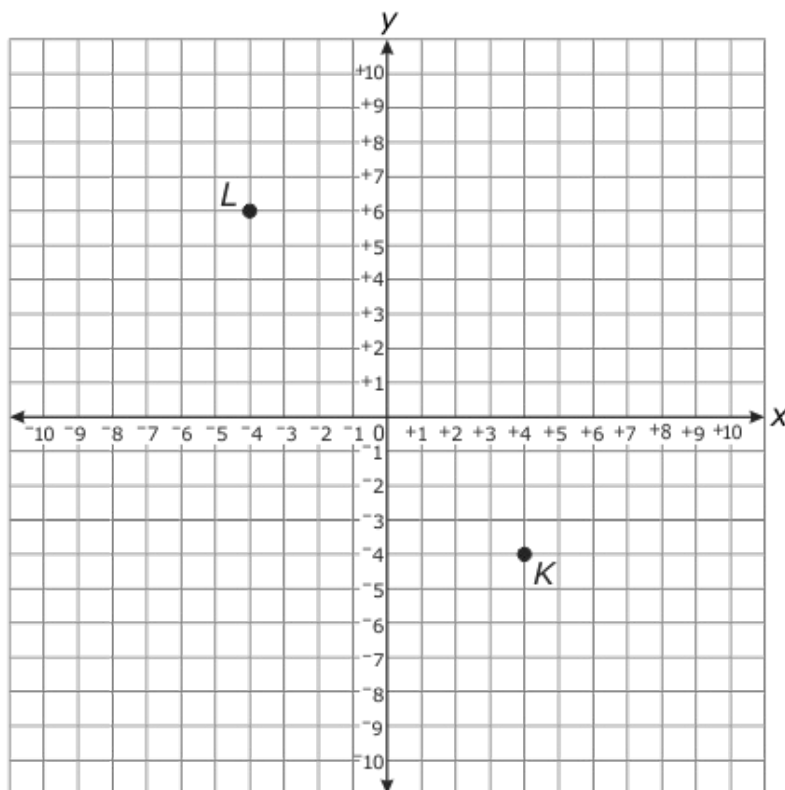

A. 3.5 units

B. 4.0 units

C. 4.5 units

D. 5.0 units

43. Triangle *JKL* has coordinates *J*(3, 2), *K*(3, 9), and *L*(7, 2). What is the **approximate** length of line segment *KL*?

A. 6 units

B. 8 units

C. 10 units

D. 11 units

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44. What is the **approximate** distance between the points (⁻2, 3) and
(2, ⁻1)?

   A   3.2 units

   B.   4.7 units

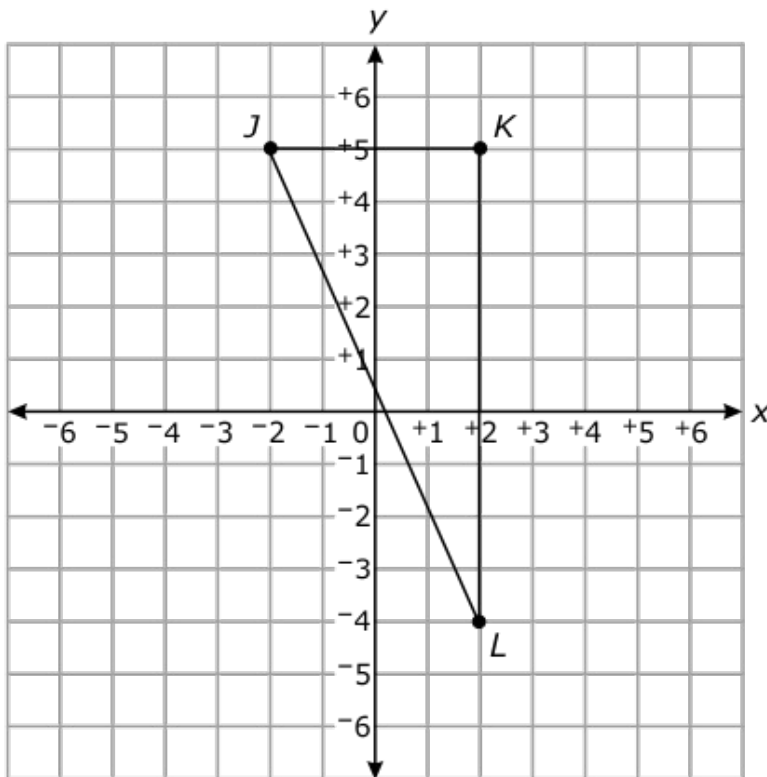   C.   5.7 units

   D.   6.2 units

45. What is the **approximate** distance between points *K* and *L*?

   A   57.9 units

   B.   18.0 units

   C.   12.8 units

   D.   11.7 units

46. What is the distance between the points (⁻8, ⁻2) and (4, 3)?

    A   12 units

    B.   13 units

    C.   14 units

    D.   15 units

47. Triangle *EFG* has vertices at *E*(⁻3, 2), *F*(⁻3, ⁻12), and *G*(10, 2). What is the **approximate** length of segment *FG*?

    A   5.2 units

    B.   7.1 units

    C.   12.2 units

    D.   19.1 units

48. Line segment *LM* has endpoints at *L*(0, 8) and *M*(4, ⁻2). What is the **approximate** length of line segment *LM*?

    A   14 units

    B.   12 units

    C.   11 units

49. Triangle *JKL* is shown below.

What is the **approximate** length of line segment *JL*?

A. 10 units

B. 9 units

C. 8 units

50. On a coordinate graph, what is the length of a line segment with endpoints at (0, 0) and (3, 4)?

A. 3 units

B. 4 units

C. 5 units

D. 7 units