Name _____ Date _____ Class _____

Skills Readiness
Line Graphs

To read a line graph, remember that a function table generates coordinate pairs.
So, $(x, f(x))$ is also a coordinate point (x, y).

To find $f(x)$ at a particular x, look for the y-value of the point with that x-coordinate.
To find an x such that $f(x)$ is a specific value, look for the value on the y-axis, and
then find the corresponding x-coordinate.

Example: Find each value for the graph of $f(x)$ shown.

What is $f(8)$?
Answer: 16 since $y = 16$ when $x = 8$

What is $f(4)$?
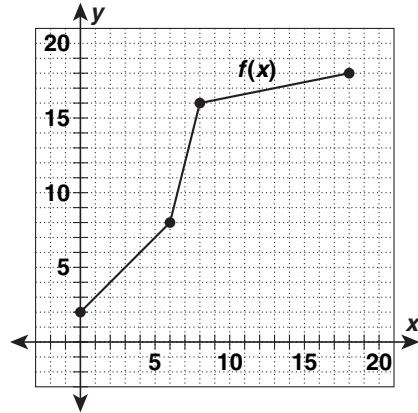Answer: 6 since $y = 6$ when $x = 4$

What is x such that $f(x) = 8$?
Look for the x value where $y = 8$.
Answer: $x = 6$

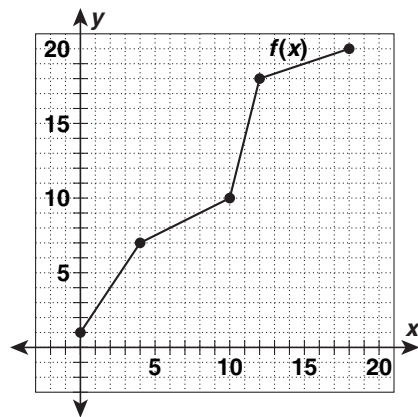What is x such that $f(x) = 17$
Look for the x value where $y = 17$.
Answer: $x = 13$

Practice on Your Own
Find each value for the graph of *f*(*x*) shown.

1. $f(4) =$ _____

2. $f(0) =$ _____

3. $f(15) =$ _____

4. What is x such that $f(x) = 10$? _____

5. What is x such that $f(x) = 4$? _____

6. What is x such that $f(x) = 18$? _____

Check
Find each value for the graph of *f*(*x*) shown.

7. $f(11) =$ _____

8. $f(7) =$ _____

9. What is x such that $f(x) = 16$? _____

10. What is x such that $f(x) = 4$? _____

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