

Mathematics

Mixed numbers, such as $3\frac{1}{2}$, cannot be entered in the alternate format grid. Instead, represent them as decimal numbers (in this case, 3.5) or fractions (in this case, $7/2$). No answer can be a negative number, such as -8.

To record your answer for an alternate format question

- begin in any column that will allow your answer to be entered;
- write your answer in the boxes on the top row;
- in the column beneath a fraction bar or decimal point (if any) and each number in your answer, fill in the bubble representing that character;
- leave blank any unused column.

EXAMPLE:

The scale on a map indicates that $\frac{1}{2}$ inch represents an actual distance of 120 miles. In inches, how far apart on the map will two towns be if the actual distance between them is 180 miles?

The answer to the above example is $\frac{3}{4}$, or 0.75, inches. A few examples of how the answer could be gridded are shown below.

3	/	4		
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
<input checked="" type="radio"/>	3	3	3	3
4	4	<input checked="" type="radio"/>	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

	3	/	4	
	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	<input checked="" type="radio"/>	3	3	3
4	4	4	<input checked="" type="radio"/>	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

0	.	7	5	
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	<input checked="" type="radio"/>	5
6	6	6	6	6
7	7	<input checked="" type="radio"/>	7	7
8	8	8	8	8
9	9	9	9	9

		.	7	5
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	<input checked="" type="radio"/>
6	6	6	6	6
7	7	7	<input checked="" type="radio"/>	7
8	8	8	8	8
9	9	9	9	9

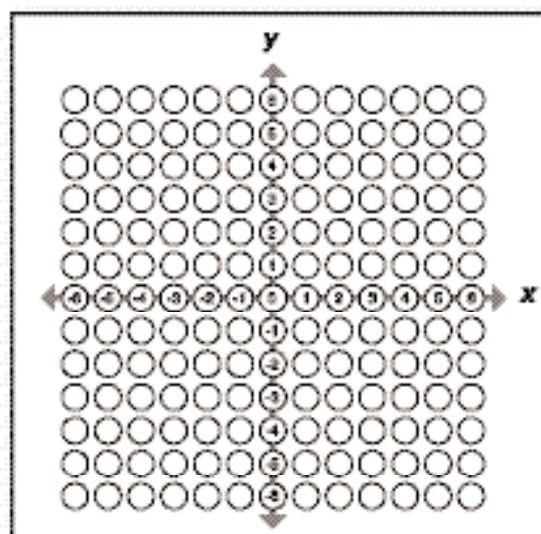
Points to remember:

- The answer sheet will be machine scored. **The circles must be filled in correctly.**
- Mark no more than one circle in any column.
- Grid only one answer even if there is more than one correct answer.
- Mixed numbers such as $3\frac{1}{2}$ must be gridded as 3.5 or $7/2$.
- No answer can be a negative number.

Mathematics

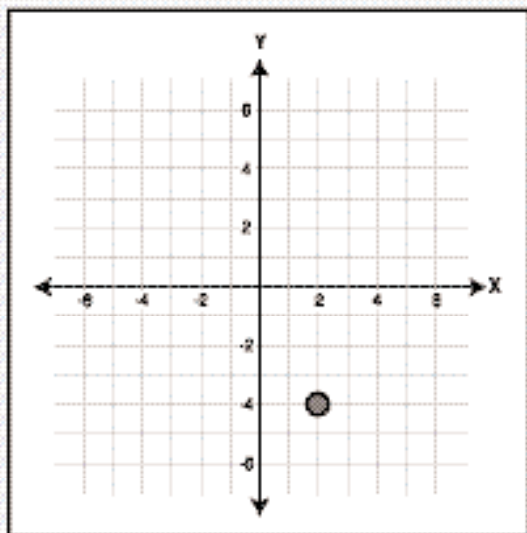
Points to remember when recording an answer on the coordinate plane grid:

- To record an answer, you must have an "x" value and a "y" value.
- No answer will have a value that is a fraction or a decimal.
- Mark only the one circle that represents your answer.



EXAMPLE

The coordinates of point A, shown on the graph below, are (2,-4).

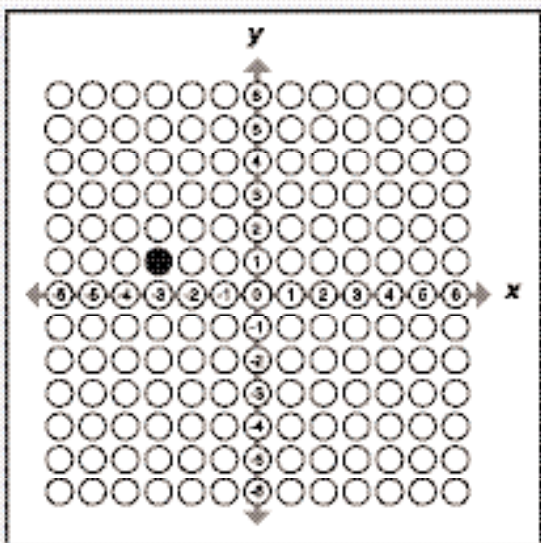


The coordinates of point B, not shown on the graph, are (-3,1). What is the location of point B?

DO NOT MARK YOUR ANSWER ON THE GRAPH ABOVE.

Mark your answer on the coordinate plane grid on your answer sheet.

CORRECT RESPONSE



CALCULATOR DIRECTIONS

To prepare the calculator for use the **first** time, press the **ON** (upper-rightmost) key. “DEG” will appear at the top-center of the screen and “0.” at the right. This indicates the calculator is in the proper format for all your calculations.

To prepare the calculator for **another** question, press the **ON** the red **AC**. This clears any entries made previously.

To do any arithmetic, enter the expression as it is written. Press **=** (equals sign) when finished.

EXAMPLE A: $8 - 3 + 9$

First press **ON** or **AC**

Enter the following:

8 **-** **3** **+** **9** **=**

The correct answer is 14.

If an expression in parentheses is to be multiplied by a number, press **x** (multiplication sign) between the number and the parenthesis sign.

EXAMPLE B: $6(8 + 5)$

First press **ON** or **AC**

Enter the following:

6 **x** **(** **8** **+** **5** **)** **=**

The correct answer is 78.

To find the square root of a number

- enter the number;
- press the **SHIFT** (upper-leftmost) key (“SHIFT” appears at top-left of the screen);
- press **x²** (third from the left on top row) to access its second function: square root.

DO NOT press **SHIFT** and **x²** at the same time.

EXAMPLE C: $\sqrt{64}$

First press **ON** or **AC**

Enter the following:

6 **4** **SHIFT** **x²** **=**

The correct answer is 8.

To enter a negative number such as -8,

- enter the number without the negative sign (enter 8);
- press the “change sign” (**+/-**) key which is directly above the **7**

All arithmetic can be done with positive and/or negative numbers.

EXAMPLE D: $-8 - -5$

First press **ON** or **AC**

Enter the following:

8 **+/-** **-** **5** **+/-** **=**

The correct answer is -3.
