

10.4 Integers and the Coordinate Plane

Chapter 10: Final Cumulative Review

Name: _____

Date: _____

Class/Period: _____

10.119 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A temperature changes from -7°C to 4°C . Find and interpret the change.

10.121 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Evaluate $|-18|$, $|7|$, $|0|$ as distances from zero.

10.120 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Write the opposite and additive inverse of -13.5 .

10.122 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Order -3.2 , -3.5 , -3.05 , and -3.25 from least to greatest.

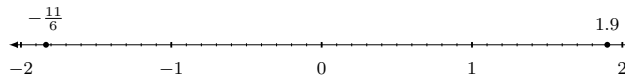
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10.123 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Use the number line to compare the distances of $-\frac{11}{6}$ and 1.9 from zero.



10.124 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A submarine is at -125 m and a diver at -38 m. Who is deeper, and what is their vertical distance?

10.125 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A number is 6 units from -2. Find both possible numbers.

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10.126 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Find all integers satisfying $|x| < 4$.

10.127 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Create two rational numbers between $-\frac{2}{3}$ and $-\frac{1}{2}$.

10.128 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A student says $-8 > -3$ because $8 > 3$. Correct the reasoning with position on a number line.

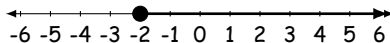
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10.129 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Write the inequality shown and explain the endpoint symbol.



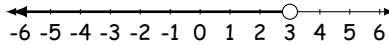
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10.130 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Write the inequality shown and explain the endpoint symbol.



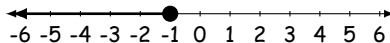
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10.131 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Write the inequality shown and explain the endpoint symbol.



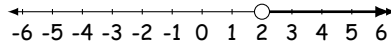
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10.132 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Write the inequality shown and explain the endpoint symbol.



10.133 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Graph $-2 \leq x < 5$ on a number line and list its integer solutions.

10.134 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A graph uses an open point at 2 and shades right. A student writes $x \geq 2$. Explain and correct.

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10.135 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Name the quadrant or axis containing $(5,-2)$, $(-3,4)$, $(0,-7)$, $(-6,-1)$, and $(4,0)$.

10.137 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Plot $C(2,-5)$ and $D(2,4)$. Find CD and explain why only y-coordinates matter.

10.136 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Plot $A(-4,3)$ and $B(5,3)$. Find AB and explain why only x-coordinates matter.

10.138 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Three rectangle vertices are $(-3,1)$, $(4,1)$, and $(4,6)$. Find the fourth vertex, perimeter, and area.

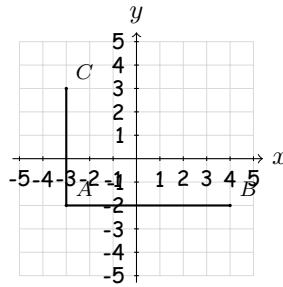
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10.139 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Add the missing rectangle vertex and state its coordinates.



10.140 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A point has x-coordinate -6 and is 9 vertical units from $(-6, 2)$. Find both points.

10.141 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A square has opposite vertices $(-2, -1)$ and $(4, 5)$, with axis-parallel sides. Find other vertices and area.

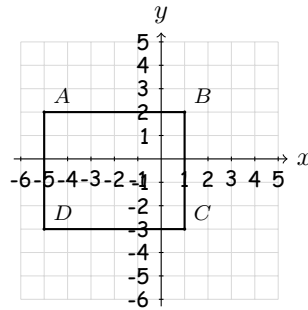
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10.142 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

The rectangle is shown. Find perimeter and area.



10.143 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

P(a,4) is 7 horizontal units from Q(-2,4). Find both possible a-values.

10.144 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A rectangle has vertices $(a, -2)$, $(a, 5)$, $(4, 5)$, and $(4, -2)$, and area 42. Find a , given $a < 4$.

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10.145 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Points $A(-6, 4)$, $B(-6, -3)$, and $C(2, -3)$ form two sides of a rectangle.

Find the lengths of $\overline{AB}$ and $\overline{BC}$. Then find the total distance traveled from A to C by passing through B .

10.147 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

Design an axis-parallel rectangle with integer vertices, area 24, and no vertex on an axis.

10.146 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A point in Quadrant II is 3 units from the y -axis and 5 from the x -axis. Find it.

10.148 Directions:

Complete all work on separate paper. Show calculations, reasoning, and labeled diagrams as appropriate..

A point has integer coordinates and lies 5 horizontal units and 4 vertical units from $(2, -1)$. List all possible points.