

# Math 6+: Measurement

## Perimeter, Area, Surface Area, and Volume

### Perimeter and Circumference

Students	Learning Continuum Statements:
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Students:	
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	<b>RIT 151-160:</b>
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- Determines the perimeter of basic polygons using nonstandard units shown on all sides

Students:	
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	<b>RIT 161-170:</b>
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- *No Skills Listed*

Students:	
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	<b>RIT 171-180:</b>
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- Determines the perimeter of basic polygons with all sides labeled

Students:	
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	<b>RIT 181-190:</b>
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- Determines the perimeter of basic polygons with all sides labeled

Students:	
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	<b>RIT 191-200:</b>
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- Determines the perimeter of basic polygons in which not all sides are labeled
- Determines the perimeter of basic polygons with all sides labeled
- Determines the perimeter of basic polygons with all sides labeled and involving decimals
- Solves problems involving perimeters of rectangles within a real-world or mathematical context

Students:	
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	<b>RIT 201-210:</b>
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- Determines side lengths given the perimeter of rectangles
- Determines the perimeter of basic polygons in which not all sides are labeled
- Determines the perimeter of basic polygons with all sides labeled and involving decimals
- Solves problems involving perimeters of rectangles within a real-world or mathematical context

**Students:****RIT 211-220:**

- Counts to find the perimeter of complex figures
- Describes the effect on perimeter when dimensions of a rectangle are changed
- Determines side lengths given the perimeter of rectangles
- Determines side lengths involving decimals, given the perimeter and some side lengths of non-rectangular polygons
- Determines the circumference of circles, given the formula
- Determines the perimeter of basic polygons in which not all sides are labeled
- Determines the perimeter of basic polygons with all sides labeled and involving decimals
- Solves problems involving decimals and perimeters of non-rectangular polygons within a real-world or mathematical context
- Solves problems involving decimals and perimeters of rectangles within a real-world or mathematical context
- Solves problems involving perimeters of rectangles within a real-world or mathematical context
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**Students:****RIT 221-230:**

- Determines side lengths given the perimeter of rectangles
- Determines the circumference of circles, formula not provided
- Determines the circumference of circles, given the formula
- Determines the perimeter of basic polygons in which not all sides are labeled
- Recognizes situations which describe perimeter
- Solves problems involving both area and perimeter of rectangles within a real-world or mathematical context
- Solves problems involving decimals and perimeters of rectangles within a real-world or mathematical context
- Solves problems involving perimeters of rectangles within a real-world or mathematical context

**Students:****RIT 231-240:**

- Describes the effect on perimeter when dimensions of a non-rectangular polygon are changed
- Determines the area of rectangles given the perimeter
- Determines the circumference given the area of a circle
- Determines the circumference of circles, formula not provided
- Determines the circumference of circles, given the formula
- Determines the perimeter of complex figures in which not all sides are labeled
- Determines the perimeter of rectangles given the area
- Determines the radius or diameter given the circumference of a circle
- Solves problems involving both area and perimeter of rectangles within a real-world or mathematical context
- Solves problems involving decimals and perimeters of rectangles within a real-world or mathematical context
- Solves problems involving perimeters of rectangles within a real-world or mathematical context

**Students:****RIT 241-250:**

- Determines the area of rectangles given the perimeter
- Determines the circumference given the area of a circle
- Determines the circumference of circles, formula not provided
- Determines the circumference of circles, given the formula
- Determines the perimeter of rectangles given the area
- Determines the radius or diameter given the circumference of a circle
- Solves problems involving both area and perimeter of rectangles within a real-world or mathematical context
- Solves problems involving perimeters of non-rectangular polygons within a real-world or mathematical context
- Solves problems involving perimeters of rectangles within a real-world or mathematical context

**Students:****RIT 251-260:**

- Describes the effect on area when the perimeter of a rectangle is changed
- Determines the circumference given the area of a circle
- Determines the perimeter of rectangles given the area
- Determines the ratio between perimeters of scaled figures

**Students:****RIT 261-270:**

- Describes the effect on area when the circumference of a circle is changed
- Solves problems involving perimeters of quarter circles, semicircles, or three-quarter circles within a real-world or mathematical context