

3 8 triangles the points segments and angles answers

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Triangle Angles and Segments

Triangle Angle Ratios

- **What are the angles of a triangle in the ratio 1 3 8?** Angles: 36° , 108° , 36°
- **What are the angles of a triangle are in the ratio 3.7 8?** Angles: 54° , 126° , 72°
- **How do you find the angle of a triangle given the ratio?** Use the ratio to find the number of parts each angle represents, and then multiply by 360 degrees (the sum of all angles in a triangle).

Special Triangle Segments and Points

- **What are the special segments and points of a triangle?** Segments: Medians, altitudes, angle bisectors, perpendicular bisectors Points: Incenter, centroid, circumcenter, orthocenter

Triangle Segment Rule

- **What is the triangle segment rule?** The segment that divides two sides of a triangle proportionally also divides the third side proportionally.
- **How do you work out the segment of a triangle?** Use the segment rule to set up an equation and solve for the unknown length.

Identifying Points and Line Segments

- **How do you identify all points and line segments?** Label the points on the triangle, and then draw lines between them to form the line segments.
- **What do we call a segment if the angles are in the ratio 5 3 72?** Scalene triangle
- **What do we call a triangle if the angles are in the ratio 5 3 7?** Obtuse triangle

Triangle Measurements

- **What are all the angles of a triangle in which the sides are in the ratio 3 5 7?** Angles: 53.13° , 76.87° , 49.99°
- **What are the three angles of a triangle if the angles are in the ratio of 1 2 3?** Angles: 36° , 72° , 72°
- **What are the measures of the angles of a triangle in the ratio 3 7 8 find their measure in degree and Radian?** Angles: 54° , 126° , 72° Radians: 0.9599, 2.2008, 1.2566

Triangle Terminology

- **What is the symbol for an angle? ?**
- **How to read angles on a triangle?** Start at the vertex and move clockwise or counterclockwise around the triangle, measuring each angle.
- **What is a triangle with an angle whose measure is greater than 90?**
Obtuse triangle
- **What are the segments of a triangle called?** Medians, altitudes, angle bisectors, perpendicular bisectors

Triangle Calculations

- **How to do special segments in triangles?** Use the triangle segment rule or the Pythagorean theorem.
- **What is the 3 triangle rule?** The sum of the lengths of any two sides of a triangle is greater than the length of the remaining side.
- **What is the formula for segment?** Segment length = (Product of adjacent segment lengths) / Opposite side length
- **How to find the missing side of a triangle?** Use the Pythagorean theorem or the Law of Cosines.
- **What are the formulas for triangles?** Area: $A = (1/2)bh$ Perimeter: $P = a + b + c$
- **How many line segments are there in 8 points?** 28

- **What does a segment look like?** A line segment is a straight line between two points.
- **What is the smallest angle of a triangle in the ratio 3 ratio 4 ratio 5?** Angle: 36°
- **What is the greatest angle of a triangle in ratio 3 ratio 5 ratio 7?** Angle: 72°
- **What are the angles of a triangle in the ratio 3 is to 7?** Angles: 36° , 108° , 36°
- **What is the greatest angle of a triangle in the ratio 1 3 5?** Angle: 72°
- **How to calculate the smallest angle in a triangle?** Use the ratio to find the number of parts each angle represents, and then multiply by 360 degrees and divide by the greatest number of parts.
- **What is the smallest of the angles of a quadrilateral in the ratio 3 ratio 4 ratio 5 ratio 6?** Angle: 54°
- **What is the largest angle of the triangle in ratio 2 ratio 3 ratio 4?** Angle: 72°

Miscellaneous

- **Are angles opposite to equal sides equal?** Yes
- **What is the length of each side of an equilateral triangle having an area of $9\sqrt{3}$ cm square?** Side length: 6 cm

- **What is the meaning of acute angle?** An angle less than 90 degrees
- **What is the consequent of a ratio in simplest form 11 15 if its antecedent is 121?** 155
- **What if each angle of a triangle is decreased by 10 degrees?** The sum of the angles will still be 180 degrees, but the triangle will have different proportions.
- **What is the largest angle in a 3 4 5 triangle?** 90°
- **What are the three angles of a triangle in the ratio 5 6 7?** Angles: 60° , 72° , 48°

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