FUN MATH KIDS

Circle Theorems Fill-in

Easy

Topic: Find missing angles using circle theorems · Grade: grade 8

Name: _____ Date: _____ Score: _____/ 10

Apply the stated circle theorem to find each missing angle.

1. Opposite angles of a cyclic quadrilateral add to 180°. One angle is 49°. Find the opposite angle.

2. Opposite angles of a cyclic quadrilateral add to 180°. One angle is 32°. Find the opposite angle.

3. Opposite angles of a cyclic quadrilateral add to 180°. One angle is 42°. Find the opposite angle.

4. The angle at the centre is twice the angle at the circumference. If the angle at the circumference is 57°, find the angle at the centre.

5. Opposite angles of a cyclic quadrilateral add to 180°. One angle is 69°. Find the opposite angle.

6. Angles in the same segment are equal. One angle is 33°. Find the other angle in the same segment.

7. Angles in the same segment are equal. One angle is 58°. Find the other angle in the same segment.

8. Opposite angles of a cyclic quadrilateral add to 180°. One angle is 65°. Find the opposite angle.

9. A triangle is drawn in a semicircle with the diameter as one side. What is the angle in the semicircle?

10. The angle at the centre is twice the angle at the circumference. If the angle at the circumference is 33°, find the angle at the centre.