

Circle Theorems Fill-in

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

Name: _____

Date: _____

Score: _____ / 10

Apply the stated circle theorem to find each missing angle.

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

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

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

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

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

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

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

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

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

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