Year 8 Angles and Constructions – Foundation

HappyKids.fit

Year 8 · Maths · Angles, Polygons and Constructions · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Angle and polygon skills

1. Name the quadrilateral that has two pairs of parallel sides, with no right angles and not all sides equal.

Answer _____

2. Name the quadrilateral that has all four sides equal, but no right angles.

Answer _____

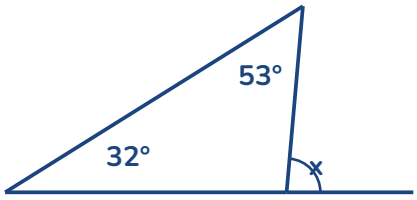
3. A regular polygon has 7 lines of symmetry. Write its number of sides, number of lines of symmetry and order of rotational symmetry.

Answer _____

4. A regular polygon has 5 lines of symmetry. Write its number of sides, number of lines of symmetry and order of rotational symmetry.

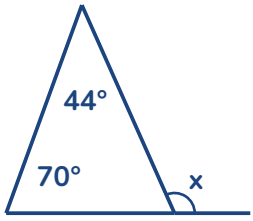
Answer _____

5. In triangle ABC, angle A = 32° and angle C = 53°. Side AB is extended beyond B. Find the exterior angle x at B.



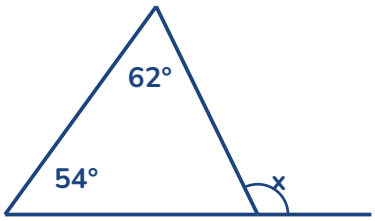
Answer _____

6. In triangle ABC, angle A = 70° and angle C = 44°. Side AB is extended beyond B. Find the exterior angle x at B.



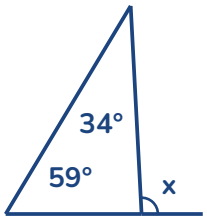
Answer _____

7. In triangle ABC, angle A = 54° and angle C = 62°. Side AB is extended beyond B. Find the exterior angle x at B.



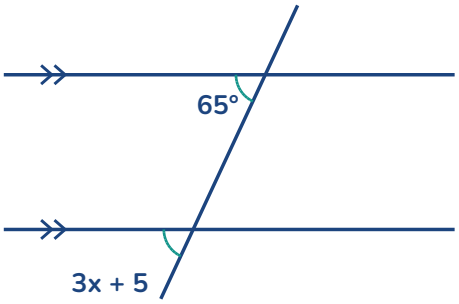
Answer _____

8. In triangle ABC, angle A = 59° and angle C = 34°. Side AB is extended beyond B. Find the exterior angle x at B.



Answer _____

9. The lines marked with arrows are parallel. Write an equation and find x. Give a reason.



Answer _____

10. In a triangle, the two interior opposite angles to an exterior angle are x and 2x. The exterior angle is 111°. Find x and the size of each angle.

Answer _____