

## Solutions – Exterior Angles of a Polygon (A)

A regular  $n$ -sided polygon has exterior angles of  $1^\circ$ . Find  $n$ .

360

A regular polygon has 10 sides. Find the size of each exterior angle.

$36^\circ$

A regular polygon has 9 sides. Find the size of each exterior angle.

$40^\circ$

A regular  $n$ -sided polygon has exterior angles of  $5^\circ$ . Find  $n$ .

72

A regular polygon has 4 sides. Find the size of each exterior angle.

$90^\circ$

A regular  $n$ -sided polygon has exterior angles of  $8^\circ$ . Find  $n$ .

45

## Solutions – Exterior Angles of a Polygon (B)

A regular polygon has 9 sides. Find the size of each exterior angle.

$40^\circ$

A regular polygon has 4 sides. Find the size of each exterior angle.

$90^\circ$

A regular  $n$ -sided polygon has exterior angles of  $12^\circ$ . Find  $n$ .

30

A regular polygon has 8 sides. Find the size of each exterior angle.

$45^\circ$

A regular  $n$ -sided polygon has exterior angles of  $3^\circ$ . Find  $n$ .

120

A regular  $n$ -sided polygon has exterior angles of  $36^\circ$ . Find  $n$ .

10

## Solutions – Exterior Angles of a Polygon (C)

A regular  $n$ -sided polygon has exterior angles of  $10^\circ$ . Find  $n$ .

36

A regular polygon has 5 sides. Find the size of each exterior angle.

$72^\circ$

A regular  $n$ -sided polygon has exterior angles of  $15^\circ$ . Find  $n$ .

24

A regular  $n$ -sided polygon has exterior angles of  $3^\circ$ . Find  $n$ .

120

A regular polygon has 6 sides. Find the size of each exterior angle.

$60^\circ$

A regular polygon has 4 sides. Find the size of each exterior angle.

$90^\circ$

## Solutions – Exterior Angles of a Polygon (D)

A regular  $n$ -sided polygon has exterior angles of  $8^\circ$ . Find  $n$ .

45

A regular polygon has 10 sides. Find the size of each exterior angle.

$36^\circ$

A regular  $n$ -sided polygon has exterior angles of  $10^\circ$ . Find  $n$ .

36

A regular polygon has 4 sides. Find the size of each exterior angle.

$90^\circ$

A regular  $n$ -sided polygon has exterior angles of  $6^\circ$ . Find  $n$ .

60

A regular polygon has 9 sides. Find the size of each exterior angle.

$40^\circ$

## Solutions – Exterior Angles of a Polygon (E)

A regular polygon has 8 sides. Find the size of each exterior angle.

45°

A regular n-sided polygon has exterior angles of 24°. Find n.

15

A regular n-sided polygon has exterior angles of 9°. Find n.

40

A regular polygon has 5 sides. Find the size of each exterior angle.

72°

A regular polygon has 6 sides. Find the size of each exterior angle.

60°

A regular n-sided polygon has exterior angles of 15°. Find n.

24

## Solutions – Exterior Angles of a Polygon (F)

A regular  $n$ -sided polygon has exterior angles of  $2^\circ$ . Find  $n$ .

180

A regular polygon has 9 sides. Find the size of each exterior angle.

$40^\circ$

A regular  $n$ -sided polygon has exterior angles of  $30^\circ$ . Find  $n$ .

12

A regular polygon has 4 sides. Find the size of each exterior angle.

$90^\circ$

A regular  $n$ -sided polygon has exterior angles of  $8^\circ$ . Find  $n$ .

45

A regular polygon has 3 sides. Find the size of each exterior angle.

$120^\circ$

## Solutions – Exterior Angles of a Polygon (G)

A regular polygon has 9 sides. Find the size of each exterior angle.

40°

A regular n-sided polygon has exterior angles of 15°. Find n.

24

A regular n-sided polygon has exterior angles of 1°. Find n.

360

A regular n-sided polygon has exterior angles of 12°. Find n.

30

A regular polygon has 3 sides. Find the size of each exterior angle.

120°

A regular polygon has 8 sides. Find the size of each exterior angle.

45°

## Solutions – Exterior Angles of a Polygon (H)

A regular n-sided polygon has exterior angles of  $24^\circ$ . Find n.

15

A regular n-sided polygon has exterior angles of  $36^\circ$ . Find n.

10

A regular polygon has 6 sides. Find the size of each exterior angle.

$60^\circ$

A regular polygon has 5 sides. Find the size of each exterior angle.

$72^\circ$

A regular n-sided polygon has exterior angles of  $15^\circ$ . Find n.

24

A regular polygon has 9 sides. Find the size of each exterior angle.

$40^\circ$

## Solutions – Exterior Angles of a Polygon (I)

A regular  $n$ -sided polygon has exterior angles of  $3^\circ$ . Find  $n$ .

120

A regular  $n$ -sided polygon has exterior angles of  $24^\circ$ . Find  $n$ .

15

A regular  $n$ -sided polygon has exterior angles of  $36^\circ$ . Find  $n$ .

10

A regular polygon has 6 sides. Find the size of each exterior angle.

$60^\circ$

A regular polygon has 9 sides. Find the size of each exterior angle.

$40^\circ$

A regular polygon has 10 sides. Find the size of each exterior angle.

$36^\circ$

## Solutions – Exterior Angles of a Polygon (J)

A regular polygon has 3 sides. Find the size of each exterior angle.

120°

A regular polygon has 6 sides. Find the size of each exterior angle.

60°

A regular n-sided polygon has exterior angles of 5°. Find n.

72

A regular n-sided polygon has exterior angles of 3°. Find n.

120

A regular polygon has 10 sides. Find the size of each exterior angle.

36°

A regular n-sided polygon has exterior angles of 15°. Find n.

24