

Name: _____

Date _____

Topic: Polygons-sum of interior angles - Worksheet 1

1. How many sides does a polygon have if the sum of its interior angles is 2340° ?
2. What is a polygon called if the sum of its interior angles equals 360° ?
3. What is the measure of each exterior angle in a regular hendecagon?
4. What is the measure of a central angle in 40 sided polygons?
5. If the sum of the interior angles of a polygon equals 1620° , how many sides does the polygon have?
6. How many sides does a polygon have if the sum of its interior angles is 3240° ?
7. What is the measure of each exterior angle if the sum of its interior angles is 1080° ?
8. What is the measure of each interior angle in a regular sixteen sided polygon?
9. What is the measure of a central angle in a regular pentagon?
10. What is the sum of the interior angles of a 20 sided polygon?



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Topic: Polygons-sum of interior angles - Worksheet 2

1. How many sides does a polygon have if the sum of its interior angles is 5040° ?
2. What is a polygon called if the sum of its interior angles equals 540° ?
3. What is the measure of each exterior angle in a regular heptagon?
4. What is the measure of a central angle in 30 sided polygons?
5. If the sum of the interior angles of a polygon equals 3960° , how many sides does the polygon have?
6. How many sides does a polygon have if the sum of its interior angles is 1260° ?
7. What is the measure of each exterior angle if the sum of its interior angles is 1440° ?
8. What is the measure of each interior angle in a regular twelve sided polygon?
9. What is the measure of a central angle in a regular decagon?
10. What is the sum of the interior angles of a 50 sided polygon?



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Topic: Polygons-sum of interior angles - Worksheet 3

1. How many sides does a polygon have if the sum of its interior angles is 2880° ?
2. What is a polygon called if the sum of its interior angles equals 720° ?
3. What is the measure of each exterior angle in a regular octagon?
4. What is the measure of a central angle in 18 sided polygon?
5. If the sum of the interior angles of a polygon equals 1980° , how many sides does the polygon have?
6. How many sides does a polygon have if the sum of its interior angles is 3060° ?
7. What is the measure of each exterior angle if the sum of its interior angles is 2520° ?
8. What is the measure of each interior angle in a regular eleven sided polygon?
9. What is the measure of a central angle in a regular octagon?
10. What is the sum of the interior angles of a 28 sided polygon?



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Topic: Polygons-sum of interior angles - Worksheet 4

1. How many sides does a polygon have if the sum of its interior angles is 1800° ?
2. What is a polygon called if the sum of its interior angles equals 1080° ?
3. What is the measure of each exterior angle in a regular pentagon?
4. What is the measure of a central angle in 30 sided polygon?
5. If the sum of the interior angles of a polygon equals 6840° , how many sides does the polygon have?
6. How many sides does a polygon have if the sum of its interior angles is 1620° ?
7. What is the measure of each exterior angle if the sum of its interior angles is 1980° ?
8. What is the measure of each interior angle in a regular fourteen sided polygon?
9. What is the measure of a central angle in a regular dodecagon?
10. What is the sum of the interior angles of a 15 sided polygon?



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Topic: Polygons-sum of interior angles - Worksheet 5

1. How many sides does a polygon have if the sum of its interior angles is 3240° ?
2. What is a polygon called if the sum of its interior angles equals 1260° ?
3. What is the measure of each exterior angle in a regular decagon?
4. What is the measure of a central angle in 24 sided polygon?
5. If the sum of the interior angles of a polygon equals 1080° , how many sides does the polygon have?
6. How many sides does a polygon have if the sum of its interior angles is 5040° ?
7. What is the measure of each exterior angle if the sum of its interior angles is 1620° ?
8. What is the measure of each interior angle in a regular thirteen sided polygon?
9. What is the measure of a central angle in a regular hexagon?
10. What is the sum of the interior angles of a 18 sided polygon?

