



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Use the interior-angle sum $(n - 2) \times 180^\circ$. ✓ Find each interior angle of a regular polygon.
 ✓ Name polygons by their number of sides. ✓ Recognise regular polygons.



Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

- 1 The interior angles of a pentagon sum to:
☐ A. 540° ☐ B. 360° ☐ C. 720° ☐ D. 450°
- 2 The interior angles of a decagon (10 sides) sum to:
☐ A. 1440° ☐ B. 1800° ☐ C. 1260° ☐ D. 1000°
- 3 Each interior angle of a regular octagon is:
☐ A. 135° ☐ B. 45° ☐ C. 120° ☐ D. 140°
- 4 Each interior angle of a square is:
☐ A. 90° ☐ B. 60° ☐ C. 120° ☐ D. 72°



Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

- 5 The interior angles of an n-gon sum to $(n - 2) \times$ _____
- 6 A pentagon's interior angles sum to _____
- 7 Find the sum of interior angles of a pentagon (5 sides).

- 8 Find the sum of interior angles of a decagon (10 sides).

- 9 Find each interior angle of a regular octagon.



Section C • Challenge

• CHALLENGE

5

- 10 Find each interior angle of a regular quadrilateral (a square).

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature _____

Parent's Signature _____

ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 180° 6 540° 7 $= 540^\circ$ 8 $= 1440^\circ$ 9 $= 135^\circ$ | 10 $= 90^\circ$