

Name \_\_\_\_\_

Date \_\_\_\_\_



## AREA OF A REGULAR POLYGON SHEET 2

Find the area of these regular polygons. Give your answers to 2 decimal places.

POLYGON	WORKING OUT	ANSWER
1) 	$A = \frac{3\sqrt{3}}{2} s^2 = \frac{3\sqrt{3}}{2} \cdot \left(5\frac{1}{2}\right)^2 = \frac{3\sqrt{3}}{2} \cdot \frac{121}{4}$ $= \frac{363}{8} \sqrt{3}$	78.59 in <sup>2</sup> to 2 decimal places
2) 	$A = 2s^2(1 + \sqrt{2}) = 2 \cdot 12^2 \cdot (1 + \sqrt{2})$ $= 288(1 + \sqrt{2})$	695.29 cm <sup>2</sup> to 2 decimal places
3) 	$A = \frac{5}{2} s^2 \sqrt{5 + 2\sqrt{5}} = \frac{5}{2} \cdot 4^2 \cdot \sqrt{5 + 2\sqrt{5}}$ $= 40 \cdot \sqrt{5 + 2\sqrt{5}} = 40 \cdot 3.07768$	123.11 ft <sup>2</sup> to 2 decimal places
4) 	$A = \frac{\sqrt{3}}{4} s^2 = \frac{\sqrt{3}}{4} \cdot (3.2)^2 = \frac{\sqrt{3}}{4} \cdot 10.24$	4.43 m <sup>2</sup> to 2 decimal places
5) 	$A = 3s^2(2 + \sqrt{3}) = 3 \cdot 6^2 \cdot (2 + \sqrt{3})$ $= 108(2 + \sqrt{3})$	403.06 cm <sup>2</sup> to 2 decimal places
6) 	$A = \frac{1}{4} s^2 \sqrt{5(5 + 2\sqrt{5})}$ $= \frac{1}{4} \cdot (15)^2 \cdot \sqrt{5(5 + 2\sqrt{5})}$ $= \frac{225}{4} \cdot 6.8819$	387.11 in <sup>2</sup> to 2 decimal places

# Geometry Areas Of Regular Polygons

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## Geometry Areas Of Regular Polygons:

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