

5:03 | Formulae

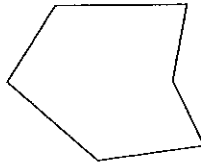
Name: _____ Class: _____

Example



The angle sum of an n -sided polygon is found using the formula $(n - 2) \times 180^\circ$.

Find the angle sum of this polygon.



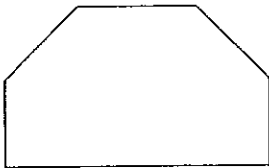
This is a hexagon (6 sides).

Its angle sum is $(6 - 2) \times 180 = 4 \times 180^\circ = 720^\circ$

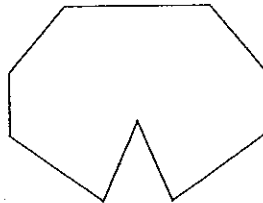
Exercise

1 Count the number of sides, n , for each polygon.

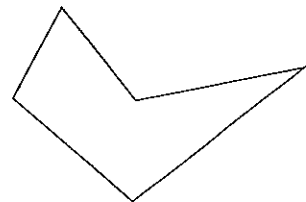
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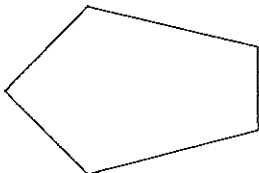
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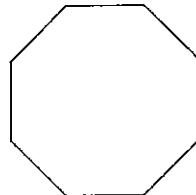
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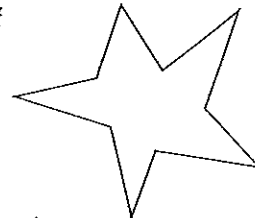
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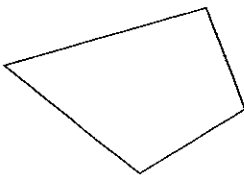
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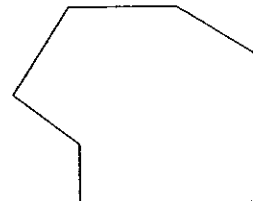
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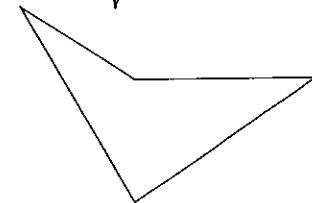
g



h



i



2 Evaluate $(n - 2) \times 180^\circ$ if n is:

a 5

b 8

c 4

d 10

e 16

f 20

3 Find the angle sum of each polygon in Question 1.

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1	a 6	b 9	c 5	d 5	e 8	f 10	g 4	h 7	i 4
2	a 540°	b 1080°	c 360°	d 1440°	e 2520°	f 3240°			
3	a 720°	b 1260°	c 540°	d 540°	e 1080°	f 1440°	g 360°	h 900°	i 360° (