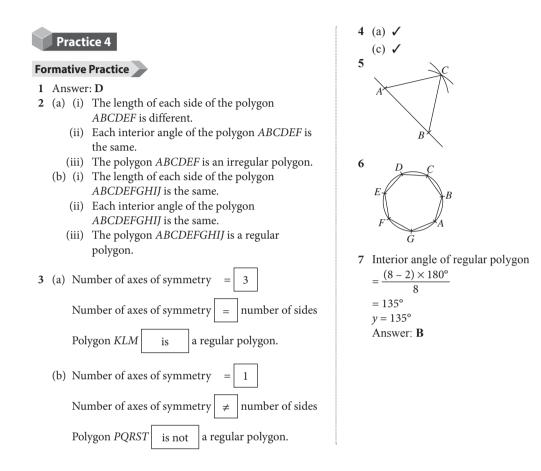
Fully-worked Solutions



8 (a)

	Number of sides, <i>n</i>	Number of triangles	Sum of interior angles
(i)	3	1	180°
(ii)	4	2	360°
(iii)	5	3	540°
(iv)	6	4	720°

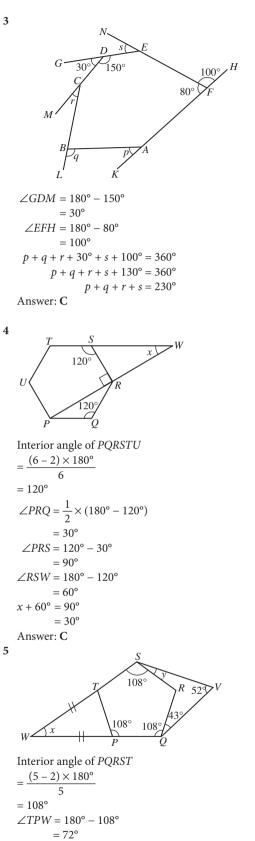
(b) (i) n-2

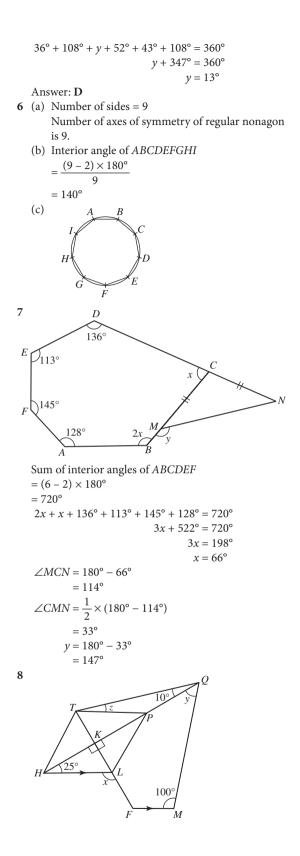
(ii) $(n-2) \times 180^{\circ}$

A1

 $\angle QRS = 144^{\circ}$ $\angle FRS = 180^{\circ} - 144^{\circ}$ = 36° $x = 180^{\circ} - 36^{\circ} - 36^{\circ}$ = 108° Answer: A 17 Interior angle of polygon PQRST $= \underbrace{(5-2) \times 180^{\circ}}_{}$ 5 = 108° $\angle RST = 108^{\circ}$ $x = \frac{1}{2} \times (180^{\circ} - 108^{\circ})$ = 36° $\angle QPT = 108^{\circ}$ $108^{\circ} = y + 63^{\circ}$ $y = 45^{\circ}$ $x + y = 36^{\circ} + 45^{\circ}$ $= 81^{\circ}$ Summative Practice 1 60 60° 60 Answer: **B** 2 MQ 40 70° $H \langle x$ 130° J80° Ľ D $\angle HLN = 180^{\circ} - 80^{\circ}$ $= 100^{\circ}$ $\angle HKM = 180^{\circ} - 40^{\circ}$ $= 140^{\circ}$ Sum of interior angles of HLNMK $= (5 - 2) \times 180^{\circ}$ = 540° $x + 140^{\circ} + 70^{\circ} + 130^{\circ} + 100^{\circ} = 540^{\circ}$ $x + 440^{\circ} = 540^{\circ}$ $x = 100^{\circ}$ Answer: C

 $= 144^{\circ}$







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 $x = 180^{\circ} - 72^{\circ} - 72^{\circ}$

= 36°

$$\angle HKL = 90^{\circ}$$

$$x = 25^{\circ} + 90^{\circ}$$

$$x = 115^{\circ}$$

$$\angle LFM = 115^{\circ}$$

$$y + 100^{\circ} + 115^{\circ} + 90^{\circ} = 360^{\circ}$$

$$y + 305^{\circ} = 360^{\circ}$$

$$y = 55^{\circ}$$

$$\angle KPT = 25^{\circ}$$

$$z = 15^{\circ}$$
9
$$D$$

$$E$$

$$F$$
Interior angle of ABCDE
$$= \frac{(5-2) \times 180^{\circ}}{5}$$

= 108°

 $x = 108^{\circ}$

$$\angle ACB = \frac{1}{2} \times (180^{\circ} - 108^{\circ})$$

$$= 36^{\circ}$$

$$y + 36^{\circ} = 60^{\circ}$$

$$y = 24^{\circ}$$
10 (a) Sum of interior angles of polygon = 1 260^{\circ}
$$(n - 2) \times 180^{\circ} = 1 260^{\circ}$$

$$n - 2 = 7$$

$$n = 9$$
Interior angle of regular polygon
$$= \frac{1 260^{\circ}}{9}$$

$$= 140^{\circ}$$

$$x = 140^{\circ}$$
(b) $y + 140^{\circ} = 180^{\circ}$

$$y = 40^{\circ}$$

$$x : y = 140^{\circ} : 40^{\circ}$$

$$= 7 : 2$$