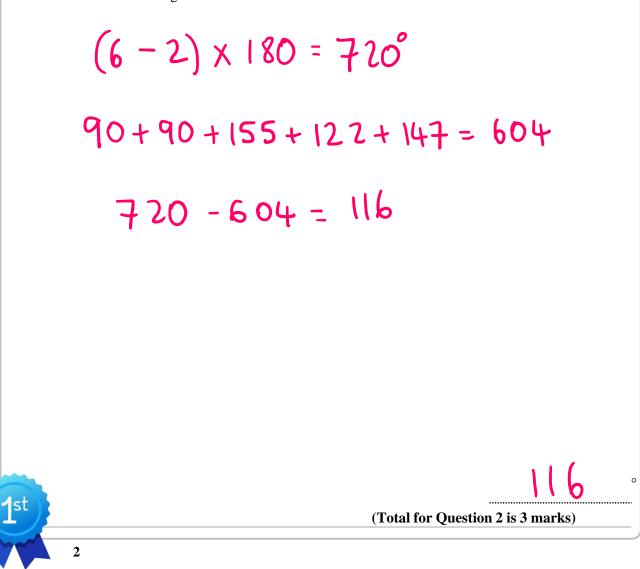


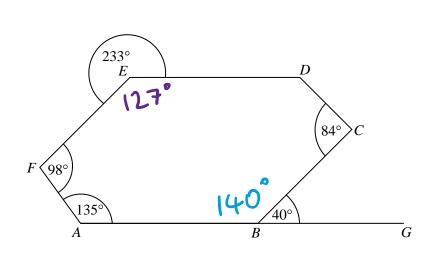
Work out the size of angle *ABC*.



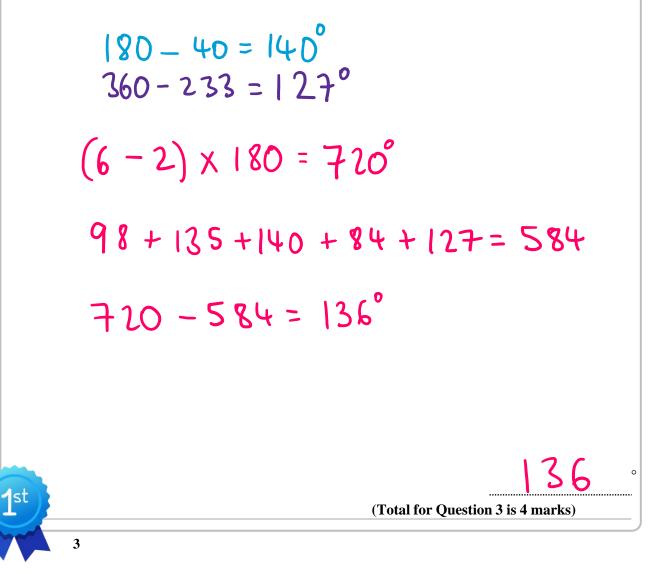
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3 ABCDEF is a hexagon.

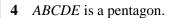


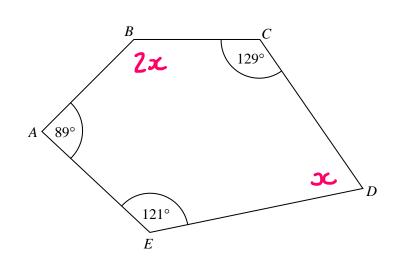
ABG is a straight line. Work out the size of angle *CDE*.



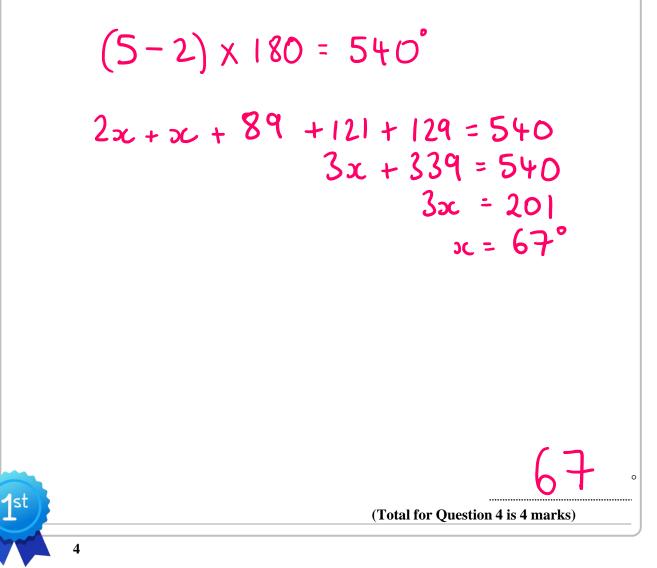
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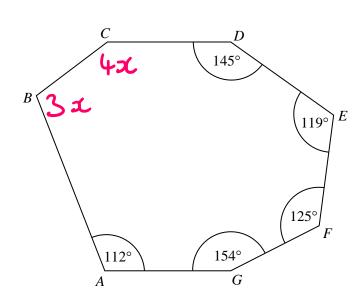
Angle $ABC = 2 \times$ angle CDEWork out the size of angle CDE.



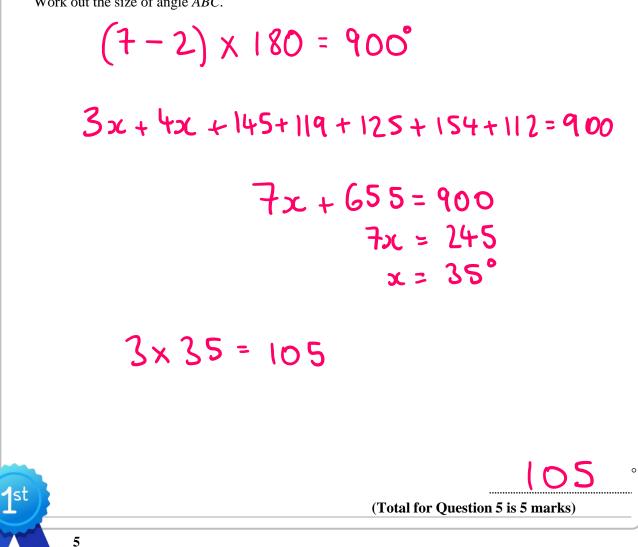
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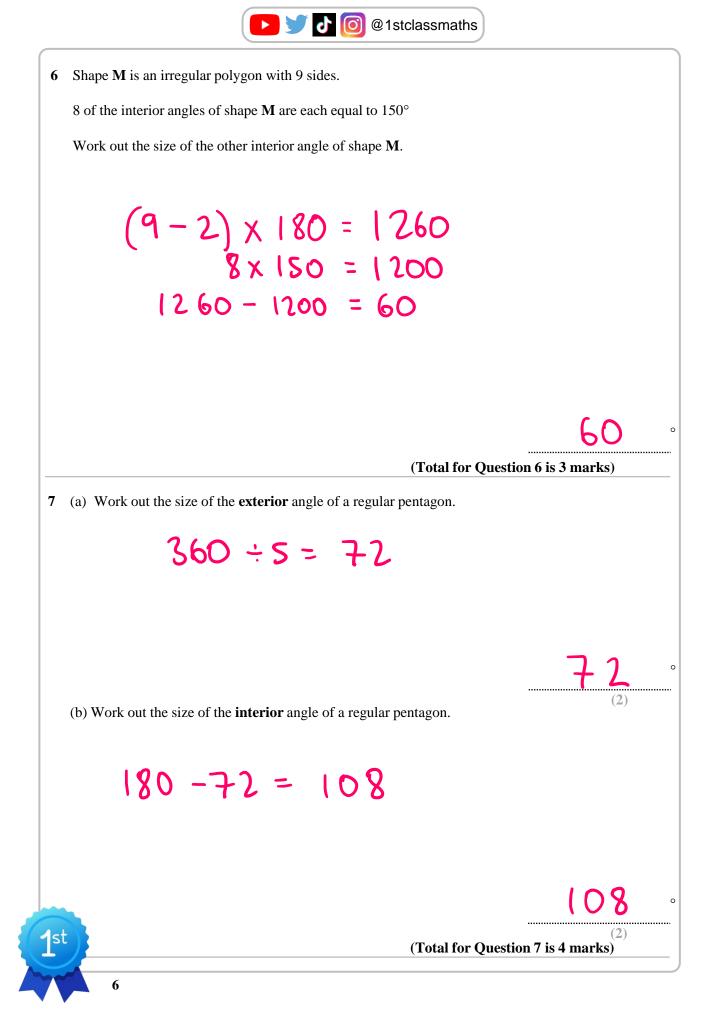


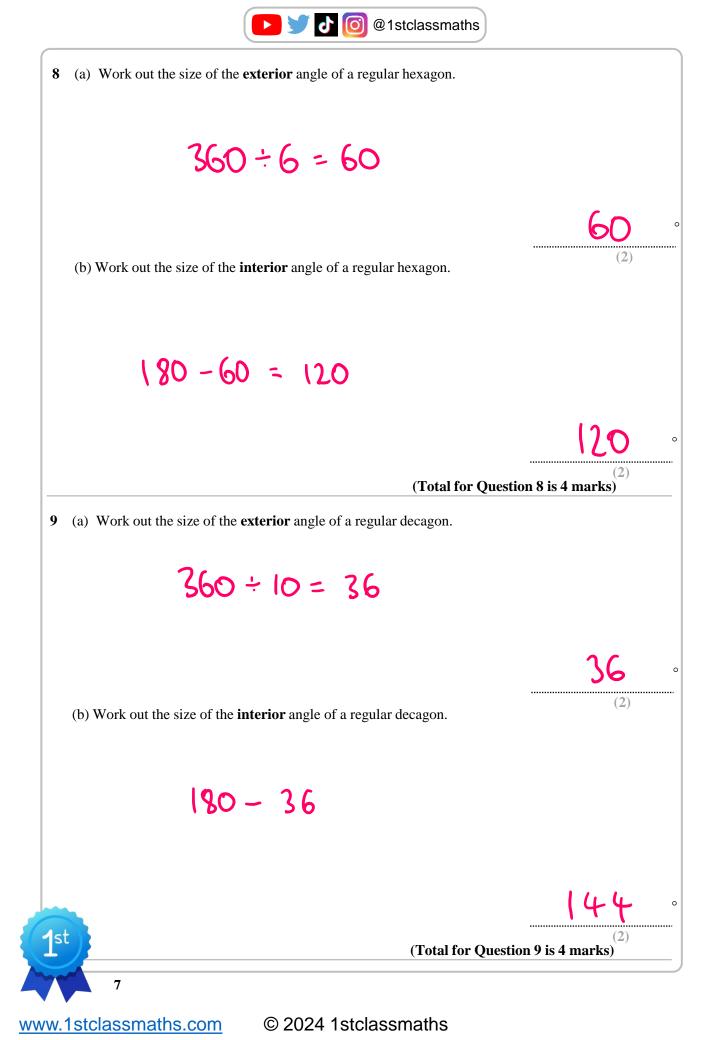


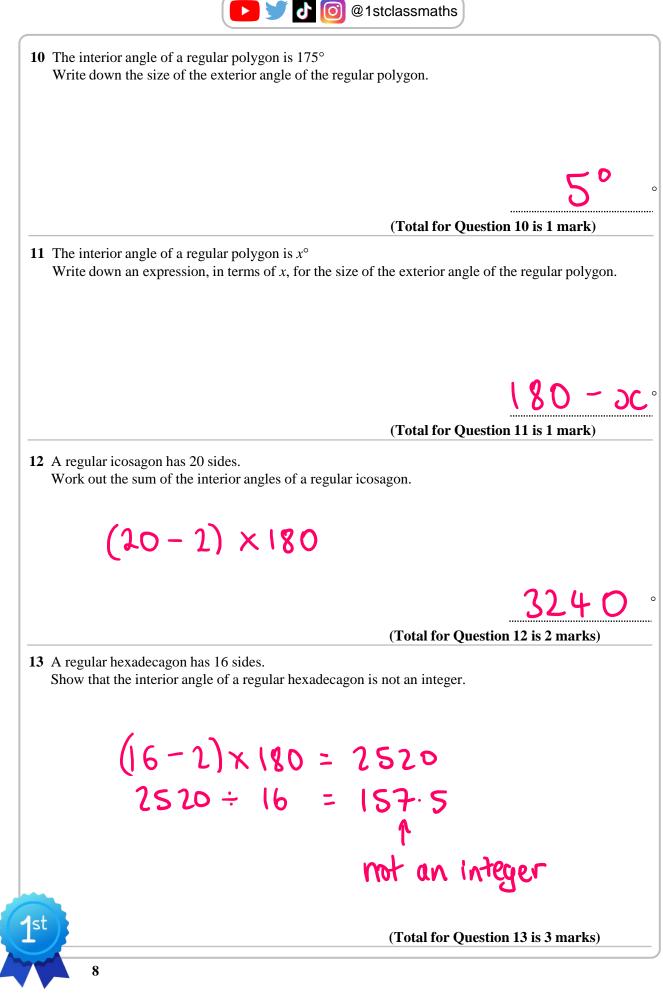


Angle ABC: Angle BCD = 3:4Work out the size of angle ABC.

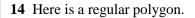


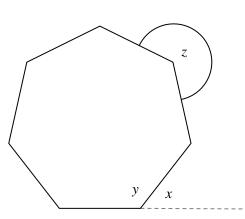












<u>51.4</u>

<u>128.6</u> °

231.4

(Total for Question 14 is 6 marks)

(a) Work out the size of the angle marked *x*. Give your answer to 1 decimal place.

$360 \div 7 = 51.428...$

(b) Work out the size of the angle marked *y*. Give your answer to 1 decimal place.

180 - 51.4

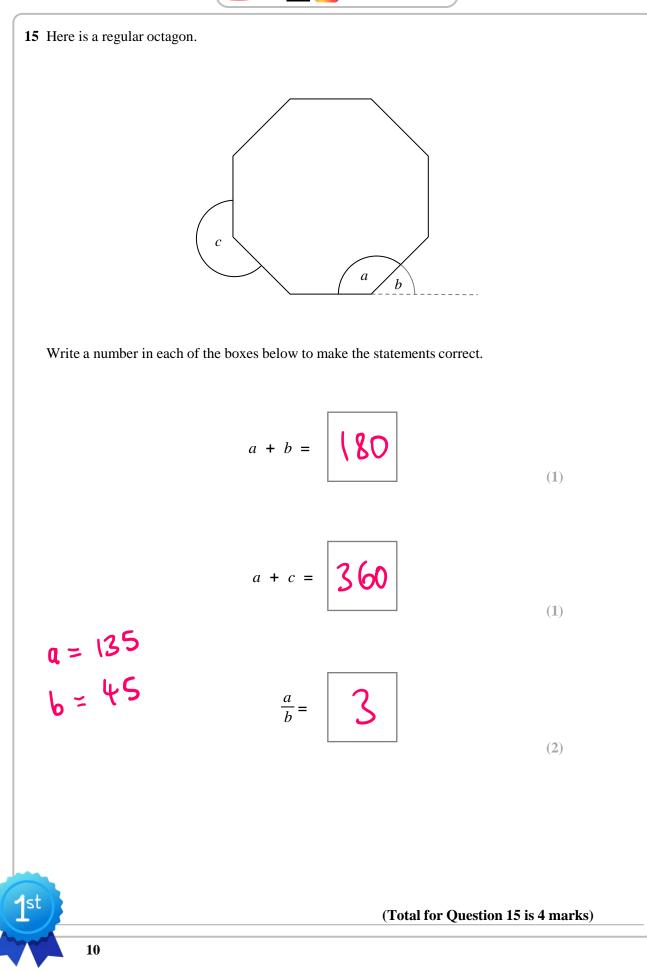
(c) Work out the size of the angle marked *z*. Give your answer to 1 decimal place.

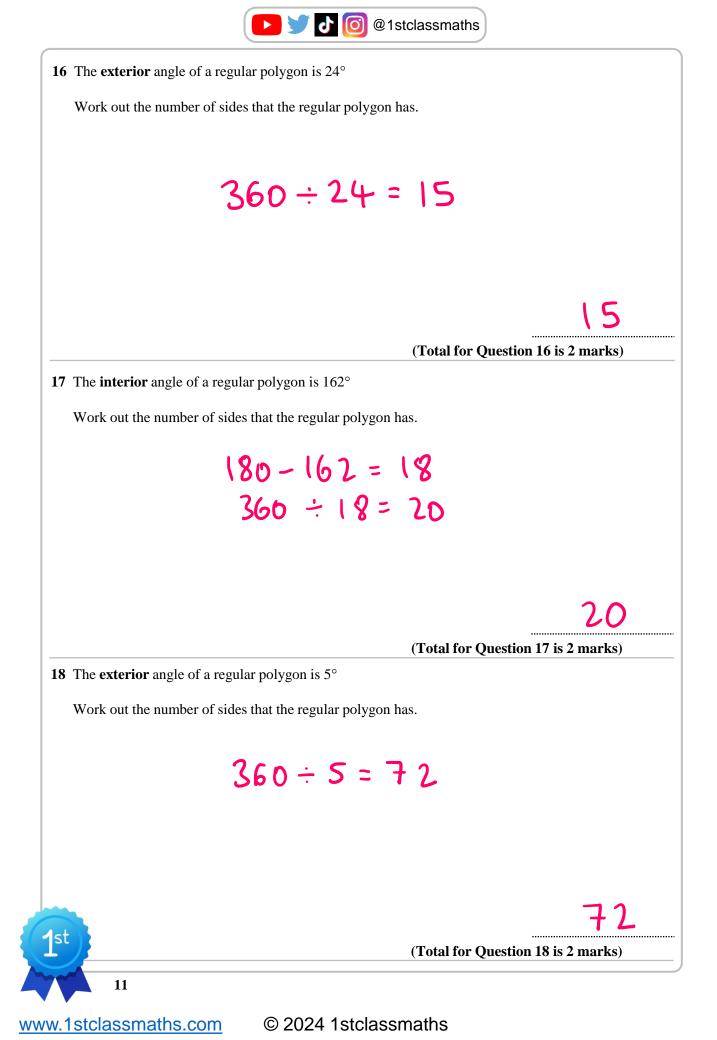
360 - 128.6

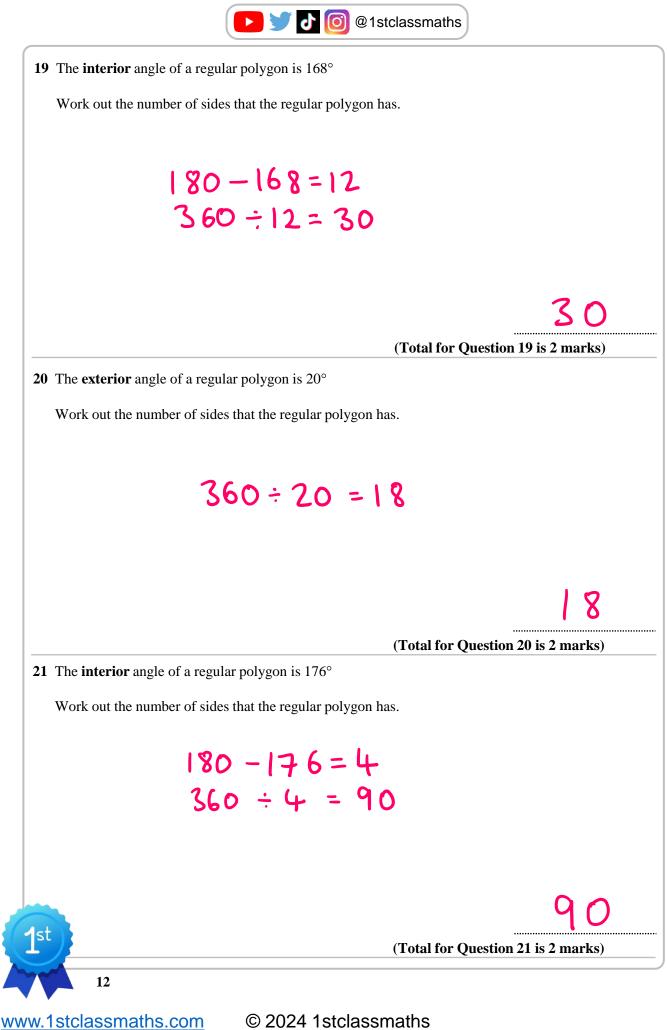


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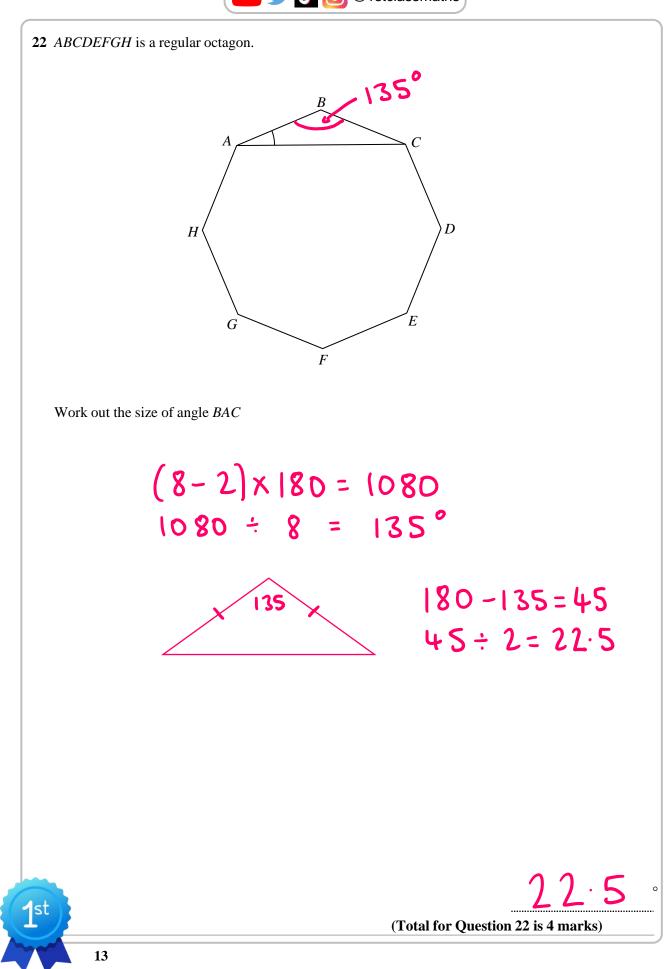






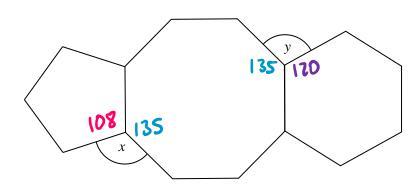








23 Here is a regular pentagon, a regular octagon and a regular hexagon.



Work out x : yGive your answer in its simplest form.

$$(S-2) \times | \$ 0 = 540$$

$$540 \div 5 = |0 \$^{\circ}$$

$$(\$-2) \times | \$ 0 = 10 \$ 0$$

$$10 \$ 0 \div \$ = 13 5^{\circ}$$

$$(6-2) \times | \$ 0 = 720$$

$$720 \div 6 = 120^{\circ}$$

$$x = 360 - 10 \$ - 135$$

$$x : 9$$

$$y = 360 - 120 - 135$$

$$y = 105$$

$$x : 9$$

$$39 : \$5$$

$$39 : \$5$$

$$39 : \$5$$

$$39 : \$5$$

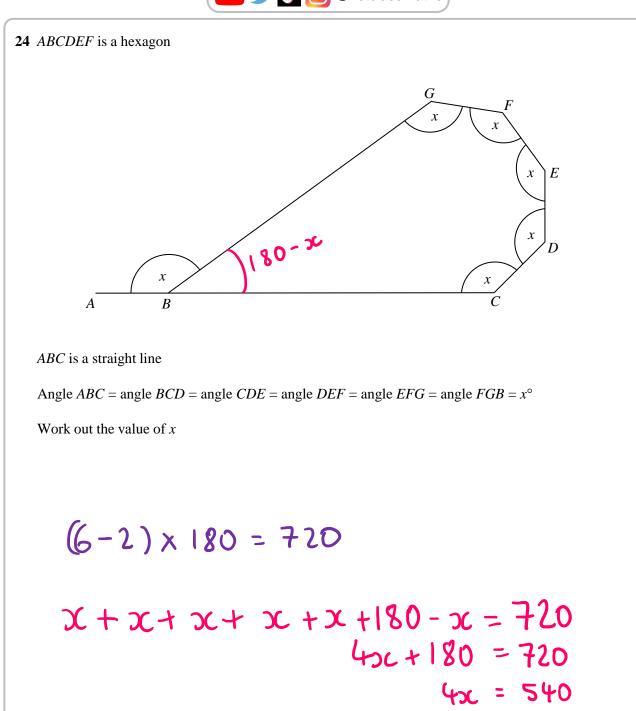
$$39 : \$5$$

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14

1st





x = 135

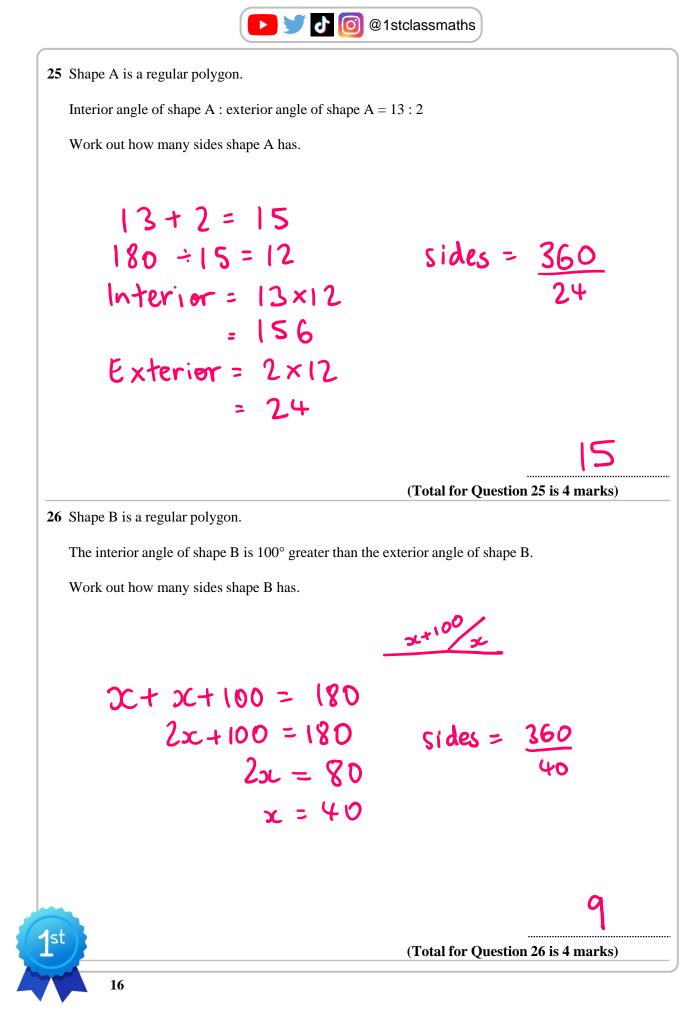
(Total for Question 24 is 4 marks)

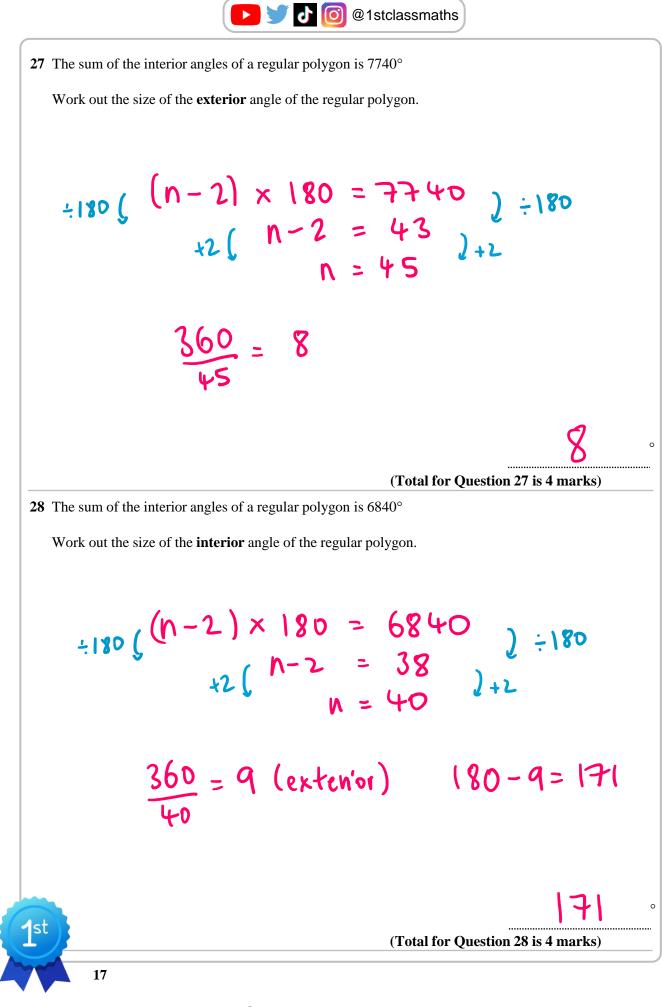
x =

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15

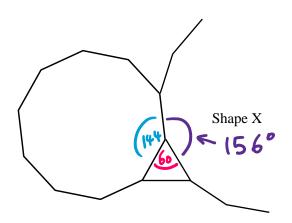
1st



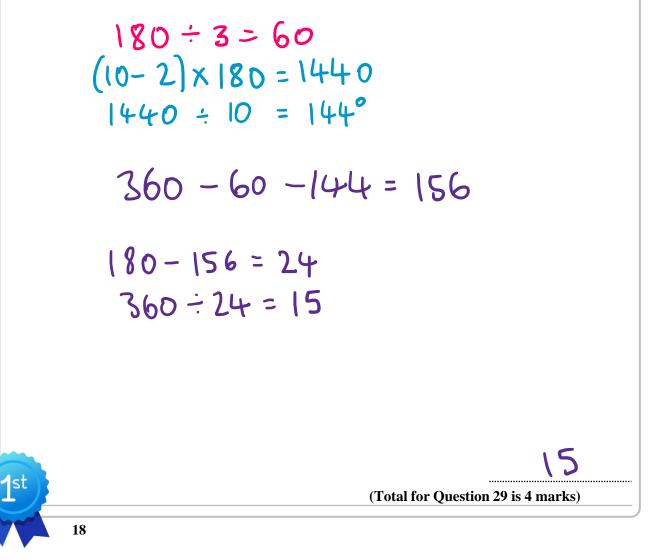




29 The diagram shows a regular decagon, an equilateral triangle and shape X.



Shape X is a regular polygon. Work out how many sides shape X has.



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