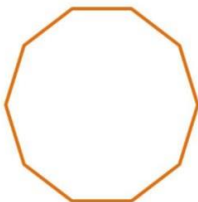




GCSE Maths Takeaway 35 - Angles in Polygons

Name:

Date:



How would you work out the total of all the **interior angles** in this regular polygon?

A $(10 - 2) \times 180$ **B** 10×180

C $\frac{360}{10}$ **D** $\frac{(10-2) \times 180}{10}$

Correct Answer: A B C D

Explanation:

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How would you work out the size of each **exterior angle** in this regular polygon?

A $\frac{(6-2) \times 180}{6}$ **B** $\frac{360}{6}$

C 6×180 **D** $(6 - 2) \times 180$

Correct Answer: A B C D

Explanation:

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How would you work out the size of each **interior angle** in this regular polygon?

A $\frac{(8-2) \times 180}{8}$ **B** $\frac{360}{8}$

C 8×180 **D** $(8 - 2) \times 180$

Correct Answer: A B C D

Explanation:

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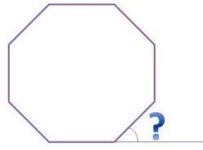
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What is the size of the exterior angle of this shape?



- a) 30°
- b) 45°
- c) 60°
- d) 180°

Correct Answer: A B C D

Explanation:

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Diagram NOT accurately drawn

The diagram shows a regular hexagon and a square.

Calculate the size of the angle a .

Total sum of angles = 720° in hexagon. Interior angle = 120° = 120°

Angle a:

What should go in the shaded box?

A) $180 - 90 = 90^\circ$ **B)** $360 - 120 = 240^\circ$

C) $180 - 120 = 60^\circ$ **D)** $360 - (90 + 120) = 150^\circ$

Questions provided by JustMaths

Correct Answer: A B C D

Explanation:

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