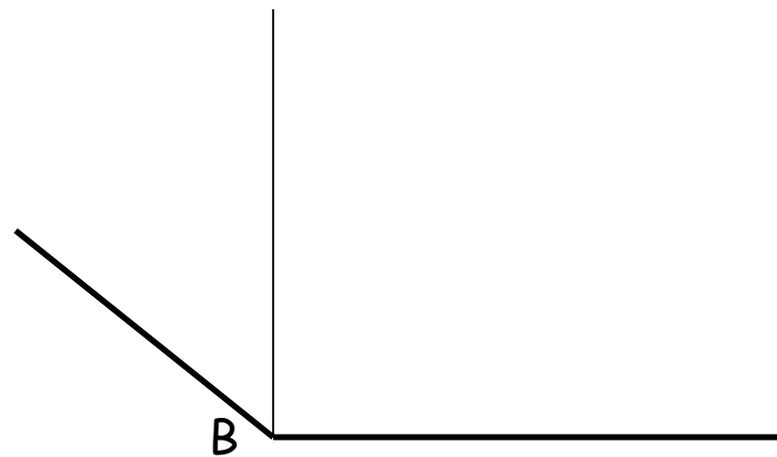
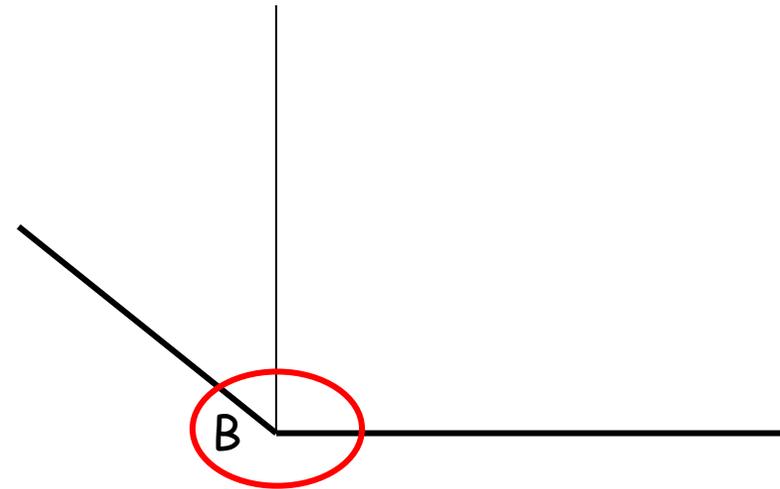


RECALL- WHICH ANGLE IS GREATER, A OR B?



RECALL- WHICH ANGLE IS GREATER, A OR B? ANSWER



Angle B is wider than angle A and further away from being a right angle.

L.O. TO IDENTIFY, COMPARE AND  
ORDER ANGLES.

**What we are learning- The properties of angles.**

**What we are doing- Answering questions that test our understanding of the week's learning.**



**SOME WILL EVEN** reason why angles are greater, smaller or the same size.

**SOME WILL** estimate the size of angles in degrees.

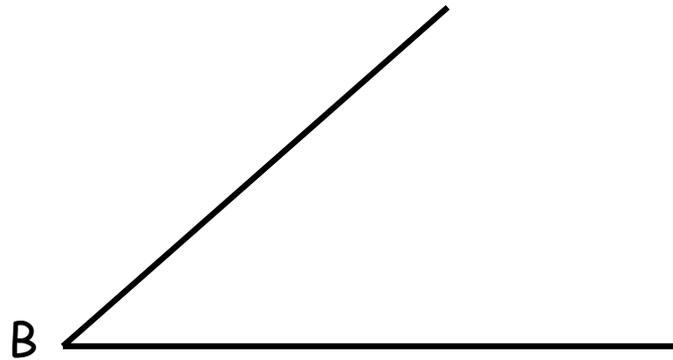
**MOST WILL** order angles in size.

**ALL WILL** identify acute, obtuse and right angles.



# HOW DO WE ESTIMATE THE SIZE OF ANGLE?

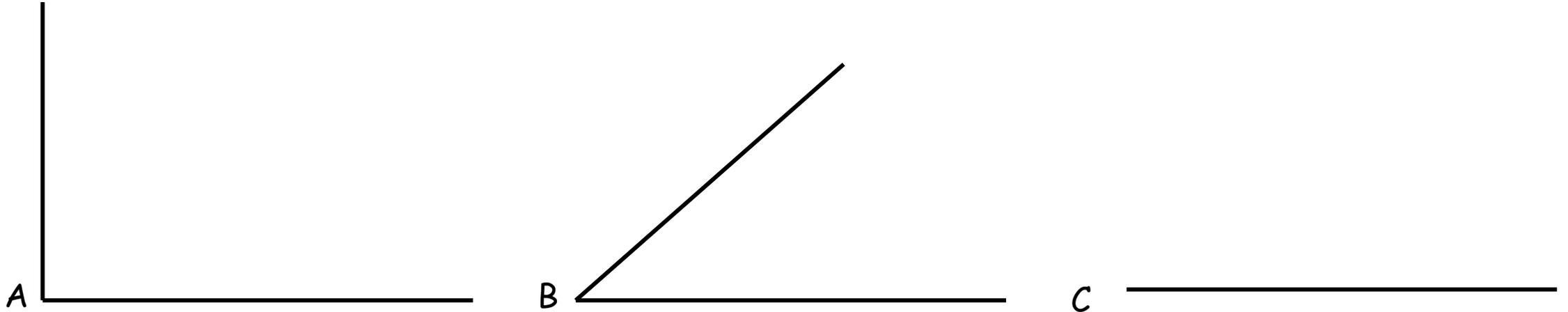
Angle B is about **half** way between angle A which is **90** degrees because it is a right angle, and angle C which has no angle and is **0** degrees. What do you think the size of angle B is in degrees?



GUIDED PRACTICE

# HOW DO WE ESTIMATE THE SIZE OF ANGLE?

Angle B is around 45 degrees, because half between 90 and 0 is 45 (90 divided by 2 = 45).

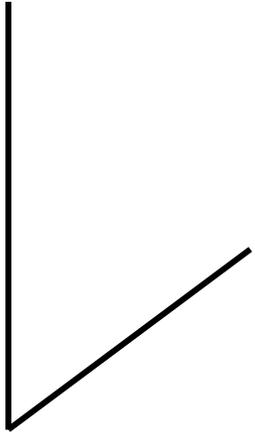


You should use your knowledge of what a right angle looks like as a comparison to the angle you are trying to estimate the size of.

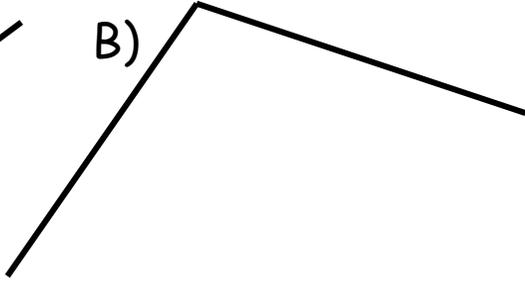
GUIDED PRACTICE

Sort these angles into acute, obtuse and right angles.

A)



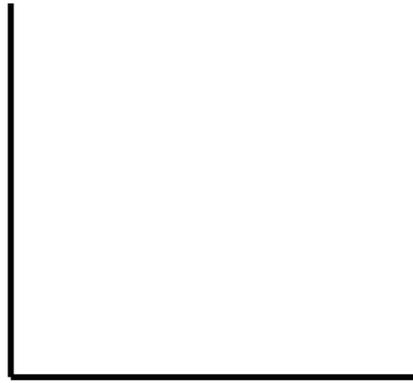
B)



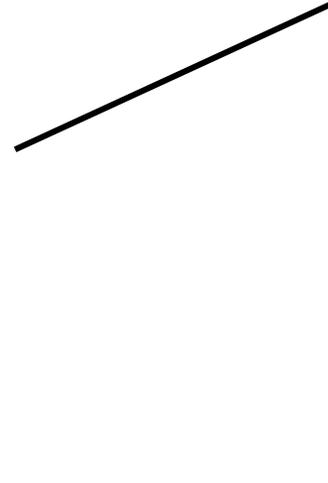
C)



D)



E)

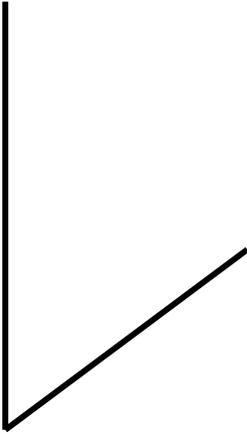


Chilli 1

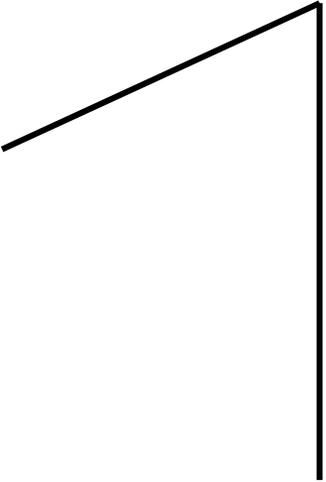
Sort these angles into acute, obtuse and right angles.

Acute

A)



E)



Right angle

D)



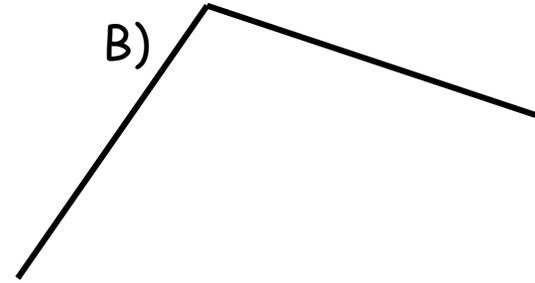
C)



Chilli 1 answers

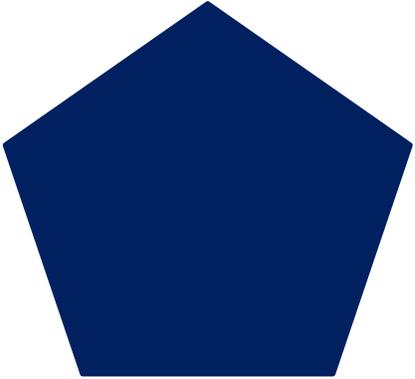
Obtuse

B)

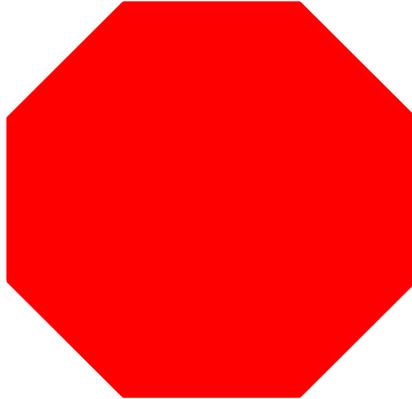


Order these shapes in order from smallest to greatest, in terms of the size of each of their angles.

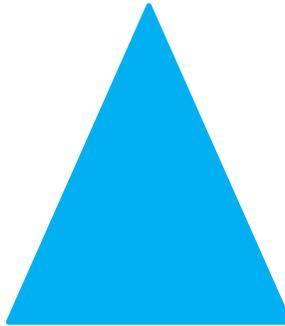
Pentagon



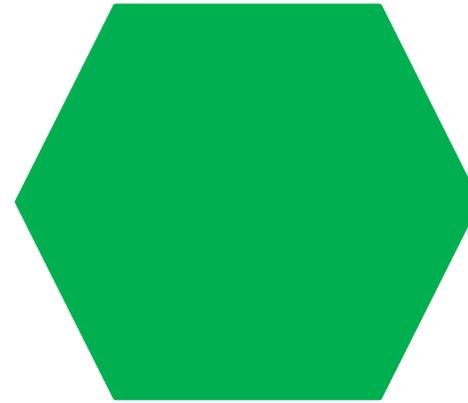
Octagon



Triangle



Hexagon



Chilli 2

Rectangle



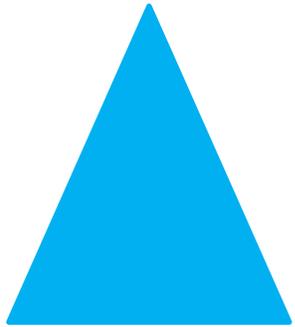
Each shape's angles are all exactly the same size. For instance all of the triangle's angles are the same size.

Can you spot a pattern?

INTELLIGENT PRACTICE

Order these shapes in order from smallest to greatest, in terms of the size of each of their angles.

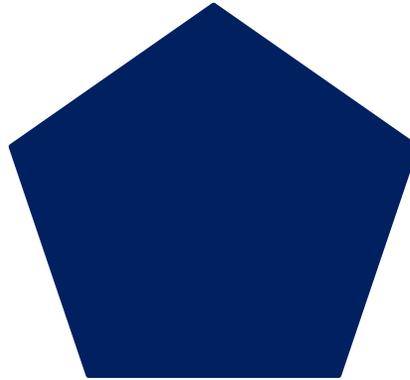
Triangle



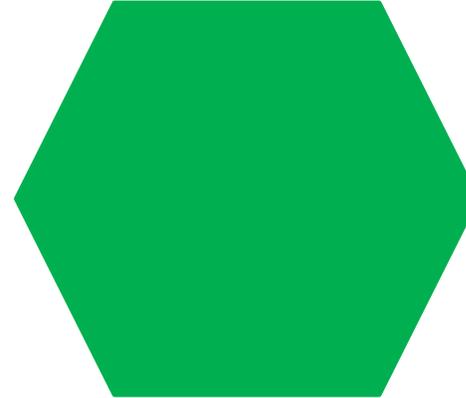
Rectangle



Pentagon

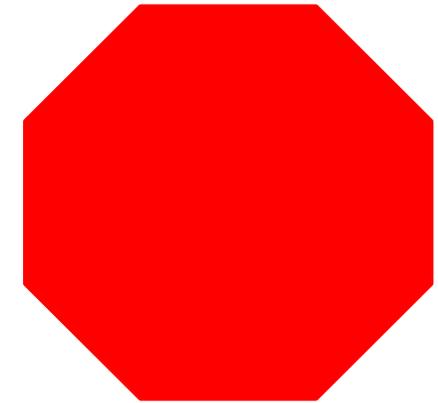


Hexagon



Octagon

Chilli 2 answers

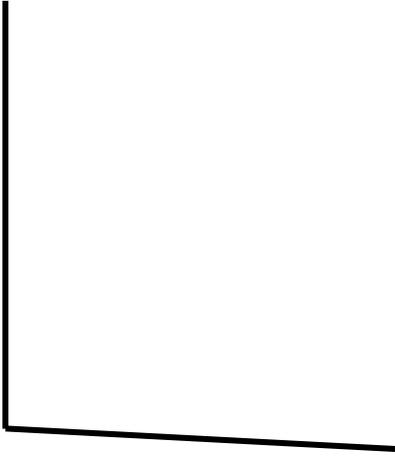


Can you spot a pattern? **The more sides the shape has, the greater the angles of the shape.**

Estimate the size of each of these angles.

Chilli 3

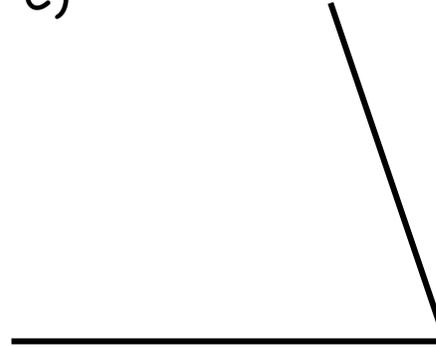
A)



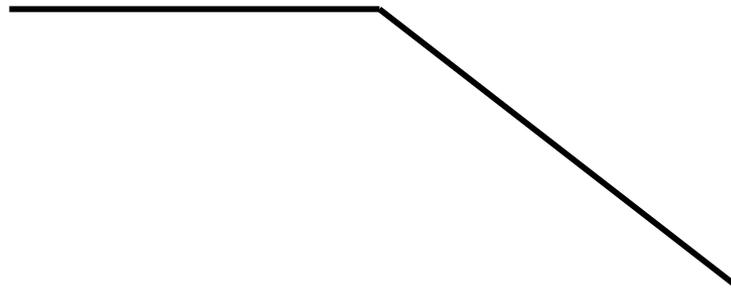
B)



C)



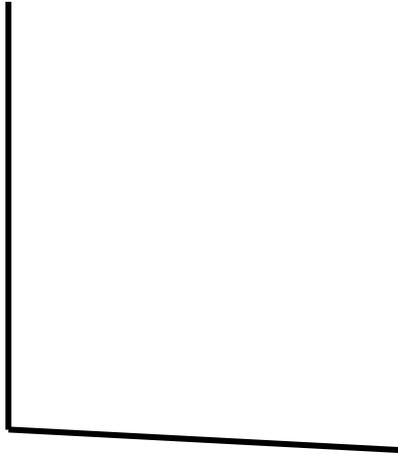
D)



Estimate the size of each of these angles.

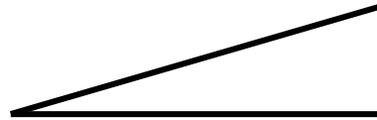
Chilli 3 answers

A)



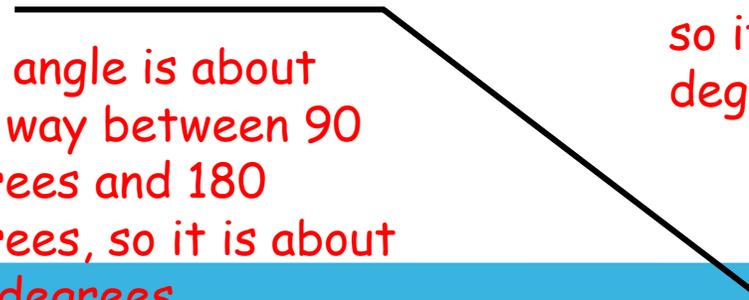
This angle is just larger than a right angle, so it is about 92 degrees.

B)



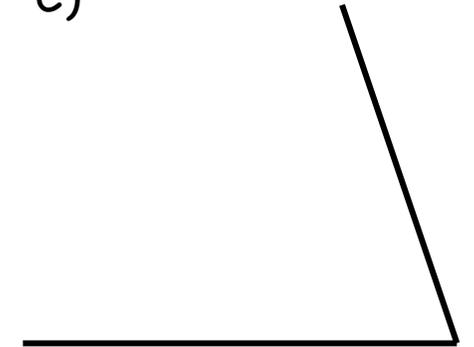
This angle is about half way between 45 degrees and 0 degrees, so it is around 22 degrees.

D)



This angle is about half way between 90 degrees and 180 degrees, so it is about 135 degrees.

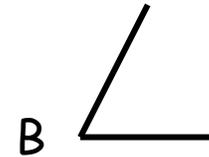
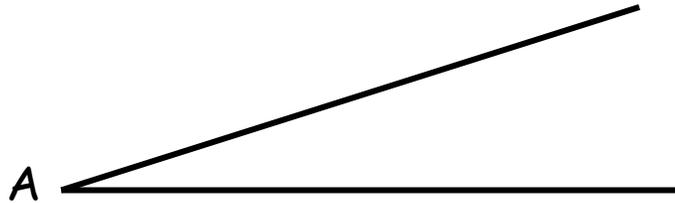
C)



This angle is a little less than 90 degrees, so it is around 83 degrees.

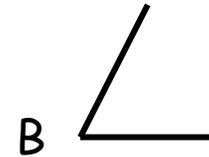
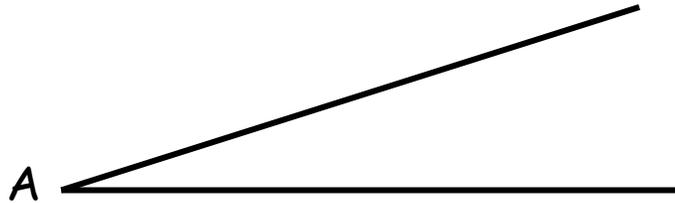
# DIVE DEEPER 1

Mr Gardner thinks that angle  $A$  is greater than  $B$  in size. Is he correct? Explain your answer by comparing the angles to a right angle.



# DIVE DEEPER 1 ANSWERS

Mr Gardner is incorrect because angle B is wider and closer to being a right angle than angle A. Therefore it is nearer to 90 degrees than angle A, meaning it is larger in size.



## DIVE DEEPER 2

1. A shape has 4 angles, each the same size. The sum of the angles is 120 degrees. Are the angles acute, right angles or obtuse?
2. The sum of a regular hexagon's angles is 720 degrees. What is the size of each angle?
3. The angles in a square add up to what amount?

## DIVE DEEPER 2 ANSWERS

1. A shape has 4 angles, each the same size. The sum of the angles is 120 degrees. Are the angles acute, right angles or obtuse? **Acute (120 divided by 4 = 30). 30 degree angle = acute angle.**
2. The sum of a regular hexagon's angles is 720 degrees. What is the size of each angle? **120 degrees (720 divided by 6 = 120 degrees).**
3. The angles in a square add up to what amount? **360 degrees (4 x 90 degrees)**