

Name: _____

Grade: _____

Score: _____

Worksheet #2



CLASSIFYING ANGLES

Learning goal: Students will identify and classify angles (acute, obtuse, right, reflex) using geometric shapes and reason about angle measures through estimation and logical thinking.

1. Consider the kite below.

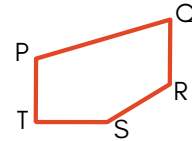


1. How many acute angles are there? List them using three letter notation.

2. How many obtuse angles are there? List them using three letter notation.

3. How many reflex angles are there?

2. Consider the pentagon below.



1. How many right angles are there? List them using three letter notation

2. How many acute angles are there? List them using three letter notation

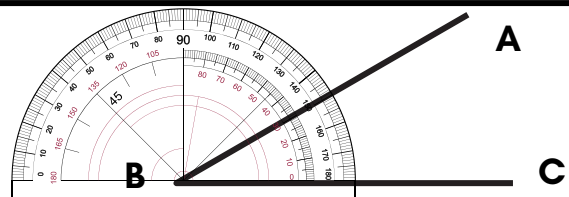
3. How many obtuse angles are there? List them using three letter notations.

3. Arjun turns through two obtuse angles. Both angles have an integer number of degrees.

a. What is the smallest possible turn Arjun has made?

b. What is the largest possible turn Arjun has made?

4. Priya has measured the angle ABC. She says that it is 103° .



a. Explain how you know Priya is wrong.

b. What is the correct measure of angle.

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Worksheet #2(Answers)

**CLASSIFYING ANGLES**

Learning goal: Students will identify and classify angles (acute, obtuse, right, reflex) using geometric shapes and reason about angle measures through estimation and logical thinking.

1. Consider the kite below.



1. How many acute angles are there? List them using three letter notation.

2 acute angles - DAB and BCD

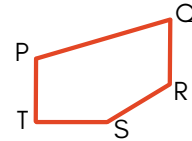
2. How many obtuse angles are there? List them using three letter notation.

2 obtuse angles - ADC and ABC

3. How many reflex angles are there?

0 Reflex angles

2. Consider the pentagon below.



1. How many right angles are there? List them using three letter notation

1 right-angle - PTS

2. How many acute angles are there? List them using three letter notation

1 acute angle - PQR

3. How many obtuse angles are there? List them using three letter notations.

3 obtuse angles - QPT, QRS and RST

3. Arjun turns through two obtuse angles. Both angles have an integer number of degrees.

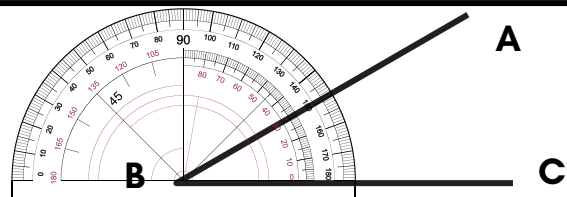
a. What is the smallest possible turn Arjun has made?

$$91 + 91 = 182^\circ$$

b. What is the largest possible turn Arjun has made?

$$179 + 179 = 358^\circ$$

4. Priya has measured the angle ABC. She says that it is 103° .



a. Explain how you know Priya is wrong.

The angle is an acute angle, so it must be less than 90°

b. What is the correct measure of angle.

30°