



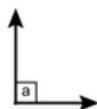
Year 6 Worksheet 8 - Classify Angles

Question 1: Identify each angle as acute, right, obtuse, straight, or reflex.



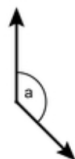
$$0^\circ < a < 90^\circ$$

Acute angle



$$a = 90^\circ$$

Right angle



$$90^\circ < a < 180^\circ$$

Obtuse angle



$$a = 180^\circ$$

Straight angle



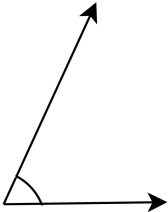
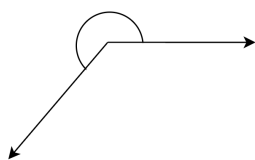
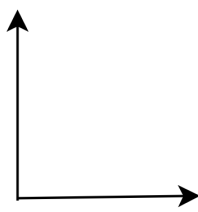
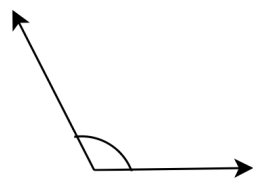


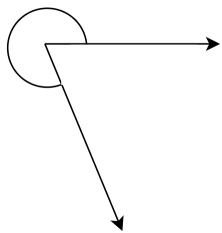
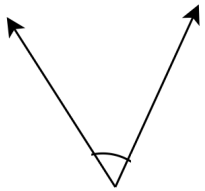
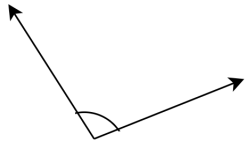
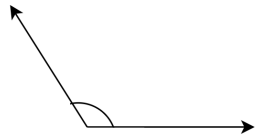

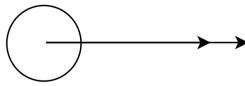
$$180^\circ < a < 360^\circ$$

Reflex angle



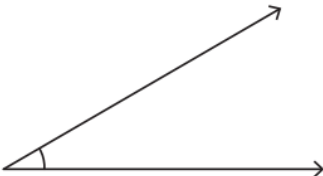
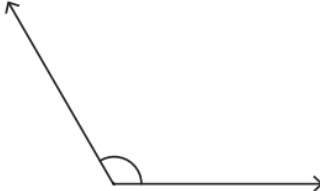
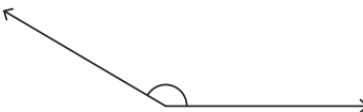
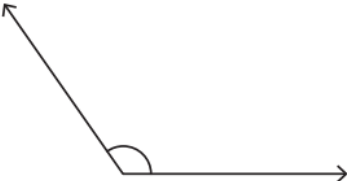
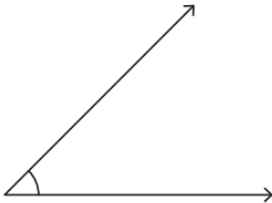
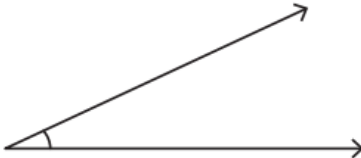



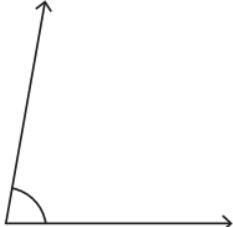
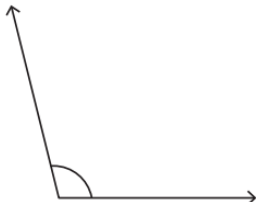
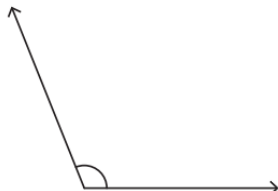
$$a = 360^\circ$$

Full angle

 _____	 _____	 _____	 _____
 _____	 _____	 _____	 _____
 _____	 _____	 _____	 _____

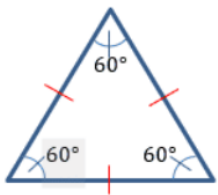


Question 2: Measure each angle using a protractor.

 _____	 _____	 _____
 _____	 _____	 _____
 _____	 _____	 _____
 _____	 _____	 _____



Question 3: Identify each angle as equilateral, isosceles, scalene.



Equilateral Triangle



Isosceles Triangle



Scalene Triangle

 _____	 _____	 _____
 _____	 _____	 _____
 _____	 _____	 _____



Question 4: Answer the following.

1	Classify the triangle by its angles: 60° , 60° , 60° . What is the sum of all angles?
2	Identify the type of triangle: 40° , 70° , 70° . What is the sum of all angles?
3	Determine the classification of triangles: 30° , 60° , 90° . What is the sum of all angles?
4	Classify this angle: 85° . Find the other 2 angles.
5	Categorize the angle: 90° . Find the other 2 angles.
6	Identify the type of angle: 120° . Find the other 2 angles.



7	Classify this triangle: $180^\circ, 0^\circ, 0^\circ$.
8	Determine the type of triangle: $45^\circ, 45^\circ, 90^\circ$. What is the sum of all angles?
9	Categorize the angle: 0° .
10	Identify the type of triangle: $130^\circ, 20^\circ, 30^\circ$. What is the sum of all angles?



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Answer Key

Question 1:

acute	reflex	right	obtuse
straight	right	reflex	acute
right	obtuse	straight	full

Question 2:

30	120	150
125	75	25
161	153	174
80	104	112

Question 3:

equilateral	scalene	isosceles
isosceles	equilateral	scalene
isosceles	scalene	equilateral



Question 4: Answer the following.

1	Classify the triangle by its angles: 60° , 60° , 60° . What is the sum of all angles? Answer: Equilateral, Sum = 180
2	Identify the type of triangle: 40° , 70° , 70° . What is the sum of all angles? Answer: Isosceles, Sum = 180
3	Determine the classification of triangles: 30° , 60° , 90° . What is the sum of all angles? Answer: Scalene, Right, Sum = 180
4	Classify this angle: 85° . Find the other 2 angles. Answer: Acute, Sum = 180
5	Categorize the angle: 90° . Find the other 2 angles. Answer: Right, Sum = 180
6	Identify the type of angle: 120° . Find the other 2 angles. Answer: Obtuse, Sum = 180
7	Classify this triangle: 180° , 0° , 0° . Answer: Degenerate
8	Determine the type of triangle: 45° , 45° , 90° . What is the sum of all angles? Answer: Isosceles, Right, Sum = 180
9	Categorize the angle: 0° . Answer: Straight
10	Identify the type of triangle: 130° , 20° , 30° . What is the sum of all angles? Answer: Scalene, Obtuse, Sum = 180