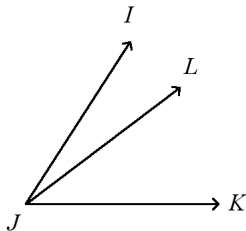


GEOMETRY QUIZ - MEASURING ANGLES

For questions 1 - 7, write the letter of the vocabulary term to the left of its definition (next to the question number).

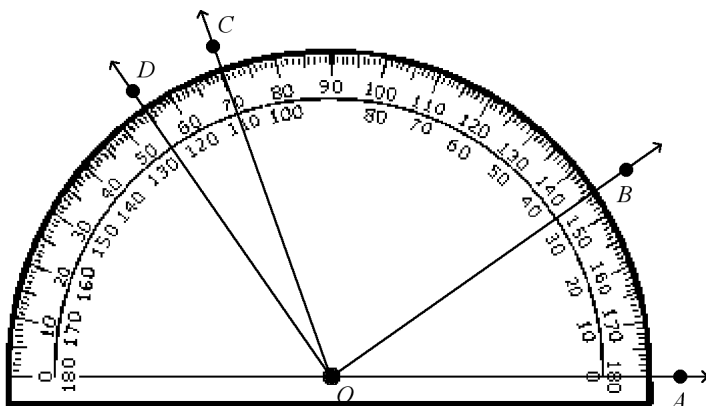
- a. exterior of an angle
 - b. interior of an angle
 - c. vertical angles
 - d. acute angle
 - e. obtuse angle
 - f. right angle
 - g. straight angle
 - h. complementary angles
 - i. supplementary angles
1. the nonadjacent angles formed by two intersecting lines
 2. an angle formed by two opposite rays that measures 180°
 3. an angle that measures greater than 0° and less than 90°
 4. an angle that measures 90°
 5. the set of all points between the sides of an angle
 6. an angle that measures greater than 90° and less than 180°
 7. the set of all points outside an angle
8. $m\angle IJK = 57^\circ$ and $m\angle IJL = 20^\circ$. Find $m\angle LJK$.



Name: _____

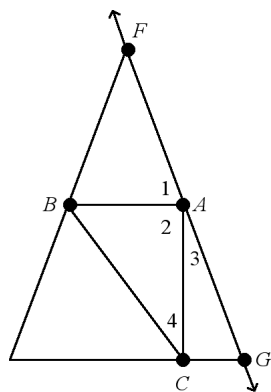
ID: A

9. Find the measure of $\angle BOD$. Then, classify the angle as acute, right, or obtuse.



10. \overrightarrow{BD} bisects $\angle ABC$, $m\angle ABD = (7x - 1)^\circ$, and $m\angle DBC = (4x + 8)^\circ$. Find $m\angle ABD$.

11. Tell whether $\angle 1$ and $\angle 2$ are only adjacent, adjacent and form a linear pair, or not adjacent.

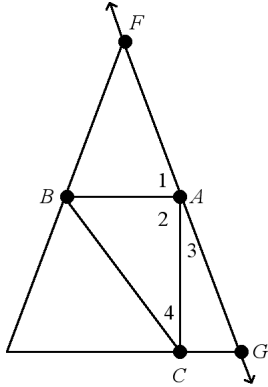


12. Find the measure of the angle formed by the hands of a clock when it is 7:00.

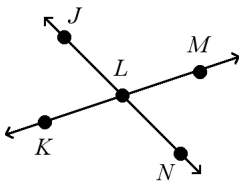
Name: _____

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13. Tell whether $\angle FAC$ and $\angle 3$ are only adjacent, adjacent and form a linear pair, or not adjacent.



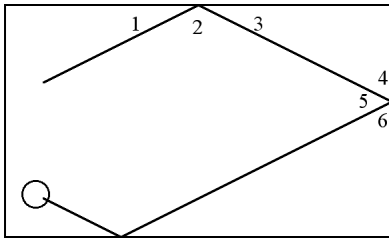
14. Find the measure of the complement of $\angle M$, where $m\angle M = 31.1^\circ$
15. Find the measure of the supplement of $\angle R$, where $m\angle R = (8z + 10)^\circ$
16. An angle measures 2 degrees more than 3 times its complement. Find the measure of its complement.
17. Name all pairs of vertical angles.



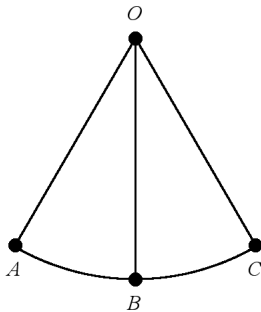
Name: _____

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18. A billiard ball bounces off the sides of a rectangular billiards table in such a way that $\angle 1 \cong \angle 3$, $\angle 4 \cong \angle 6$, and $\angle 3$ and $\angle 4$ are complementary. If $m\angle 1 = 26.5^\circ$, find $m\angle 3$, $m\angle 4$, and $m\angle 5$.



19. The tip of a pendulum at rest sits at point B . During an experiment, a physics student sets the pendulum in motion. The tip of the pendulum swings back and forth along part of a circular path from point A to point C . During each swing the tip passes through point B . Name all the angles in the diagram.



20. The supplement of an angle is 26 more than five times its complement. Find the measure of the angle.

GEOMETRY QUIZ - MEASURING ANGLES**Answer Section**

8. ANS:
 $m\angle LJK = 37^\circ$

NAT: 12.2.1.d

9. ANS:
 $m\angle BOD = 90^\circ$; right

NAT: 12.2.1.d

10. ANS:
 $m\angle ABD = 20^\circ$

NAT: 12.2.1.d

11. ANS:
only adjacent

NAT: 12.3.3.e

12. ANS:

150

NAT: 12.2.1.d

13. ANS:
adjacent and form a linear pair

NAT: 12.3.3.e

14. ANS:
 58.9°

NAT: 12.2.1.d

15. ANS:
 $(170 - 8z)^\circ$

NAT: 12.2.1.d

16. ANS:
 22°

NAT: 12.2.1.d

17. ANS:
 $\angle JLK$ and $\angle MLN$; $\angle JLM$ and $\angle KLN$

NAT: 12.3.3.e

18. ANS:
 $m\angle 3 = 26.5^\circ$; $m\angle 4 = 63.5^\circ$; $m\angle 5 = 53^\circ$

NAT: 12.2.1.d

19. ANS:
 $\angle AOB$, $\angle COB$, $\angle AOC$

20. ANS: 74

NAT: 12.2.1.d

1. ANS: C
2. ANS: G
3. ANS: D
4. ANS: F
5. ANS: B
6. ANS: E
7. ANS: A