

Unit 1-5 Congruency and proper use V1.1

Geometry Worksheet

Circle either WRONG or RIGHT next to each statement to indicate if notation is used correctly or not. IF WRONG, explain why in words!

1) WRONG RIGHT $\angle 1 + \angle 2 = 180^\circ$

2) WRONG RIGHT $m\overline{AB} + m\overline{BC} = 15$

3) WRONG RIGHT $\angle AB$ is a right angle.

4) WRONG RIGHT $XY + YZ = XZ$

5) WRONG RIGHT $\angle 1$ and $\angle 2$ are supplementary angles

6) WRONG RIGHT \overrightarrow{AD} bisects $\angle BAC$

7) WRONG RIGHT Line $n = 40$ inches

8) WRONG RIGHT $m\angle 1 \cong m\angle 2$

9) WRONG RIGHT $AB \cong CD$

10) WRONG RIGHT $\angle 1 \cong 45^\circ$

11) WRONG RIGHT $m\overrightarrow{AB} = 15''$

12) WRONG RIGHT \overrightarrow{AC} bisects $\angle BAC$

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Circle either WRONG or RIGHT next to each statement to indicate if notation is used correctly or not. IF WRONG, explain why in words!

13) WRONG RIGHT $m\angle 1 + m\angle 2 = 180^\circ$

14) WRONG RIGHT Plane ABC intersects AB at Point A.

15) WRONG RIGHT $m\angle BD = 3$

16) WRONG RIGHT $\angle 1 + \angle 2 = m\angle ABC$

17) WRONG RIGHT $m\angle 30^\circ + m\angle 60^\circ = 90^\circ$

18) WRONG RIGHT $\angle 1$ bisects $\angle BAC$

19) WRONG RIGHT $\frac{AB}{CD} = 2$

20) WRONG RIGHT $\frac{1}{2} AB = 40''$

21) WRONG RIGHT $AB + BC = AC$

22) WRONG RIGHT $m\angle 1$ is a right angle.

23) WRONG RIGHT $m\overline{AC} = 25''$

24) WRONG RIGHT $m\overline{AC} = 25''$

Answer key:

- 1) Wrong (names can't be used as a number. Requires "m" in front.)
- 2) Correct
- 3) Wrong (can't use 2 letters to name an angle.)
- 4) Correct
- 5) Correct
- 6) Correct
- 7) Wrong. (Lines have no length.)
- 8) Wrong. (Congruency is only for names of objects, not numbers.)
- 9) Wrong. (AB is the "length between points A and B", not a name of an object.)
- 10) Wrong. (A name of an object can't be = to a measure. Needs "m" in front.)
- 11) Wrong. (Lines have no length.)
- 12) Wrong. (The ray that makes up an angle can never be the bisector.)
- 13) Correct
- 14) Wrong AB is "the distance between 2 points", NOT a name of a line
- 15) Wrong. Angles can't have 2 letters (one or three or a number)
- 16) Wrong You can't add angles (these are names/objects, not measurements).
- 17) Wrong. When you have a m and the angle symbol the next thing should be the name of an angle (either a number or a letter(s). Degrees are not the "name" of an angle.
- 18) Wrong. Angles can't bisect other angles. Only segments, rays, or lines can.
- 19) Correct.
- 20) Correct
- 21) Correct
- 22) Wrong: Only a "name" can be called a right angle (not a number)
- 23) Wrong: Lines have no length (infinity is not real)
- 24) Wrong: Same for rays