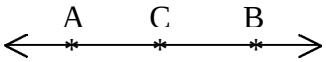
Name: Date: Pts:

Technical Math Mod C → Geometry
Lesson 3 - Study Guide - Points, Lines, and Angles

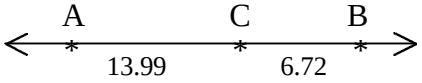
1) True or False? Points are geometric objects with no dimensions.

2) Which of the following statements correctly describes the line segment $\overline{AB}$?

A. it contains all points between A and B
B. its length is equal to the distance between A and C
C. it is the only possible path between A and B

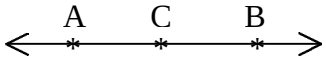


3) What is the length of $\overline{AB}$?

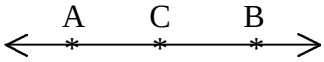


4) If C does <u>not</u> lie between points A and B, then ...

A. C is not a point on $\overline{AB}$
B. C must be in a different plane than $\overline{AB}$
C. C is the midpoint of $\overline{AB}$



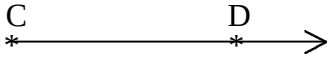
5) Given that BC = 7, AB = 21.16, and C is between A and B, what is the length of $\overline{AC}$?



6) True or False? A line segment is infinitely long.

7) Which of the following is the correct name for the given ray?

A. $\overrightarrow{DC}$
B. $\overrightarrow{CD}$



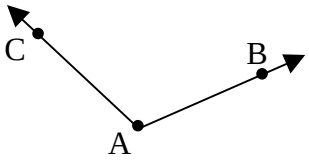
C. None of the above

8) A flat angle is also called a _____.

A. zero angle
B. line
C. right angle

9) Which of the following is a correct name for a side of the given angle?

A. C
B. ray BC
C. point A
D. ray AC

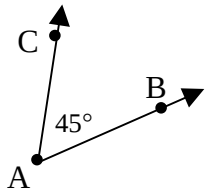


10) A right angle's measure is ...

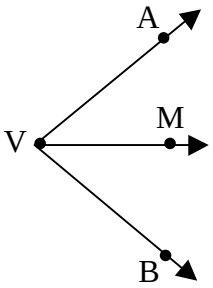
A. between 90° and 180°
B. between 0° and 90°
C. exactly 90°

11) The angle shown below is ...

A. acute
B. a right angle
C. obtuse



12) If ∠AVB measures 100° and $\overrightarrow{VM}$ is its angle bisector, what's the measure of ∠AVM?



13) If ∠A has a measure of 150° and ∠B measures 30°, then the two angles are_____.

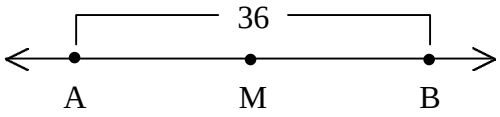
A. complementary
B. vertical
C. supplementary

14) If the measure of one angle is 2x and the measure of its complement is 4x, what is the value of x?

15) Two angles are said to be complementary if ...

A. the sum of their measures is 90°
B. they share a side
C they have the same angle measure

16) If $\overline{AM} \cong \overline{BM}$, then what is the length of $\overline{AM}$?



17) Given two skew lines, how many different planes contain both of them?

A. 1
B. 0
C. infinitely many
D. 2

18) A point has which of the following characteristics? Circle all that apply.

A infinite length B one-dimensional C infinite width

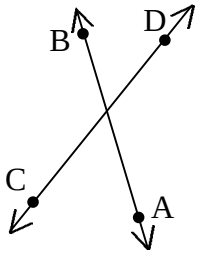
D no height E two-dimensional F no length

19) A line is _____-dimensional.

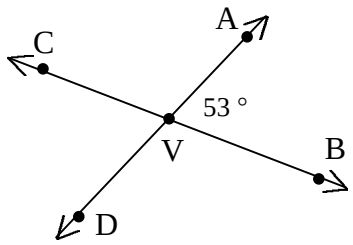
A one
B two
C zero
D three

20) In the diagram at right, lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ are _____.

A intersecting
B perpendicular
C parallel



21) What is the measure of ∠CVD?



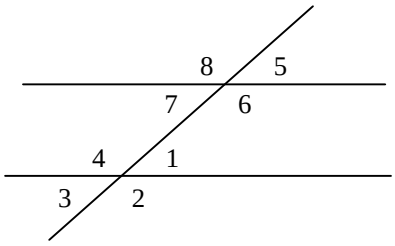
22) Lines that are coplanar and intersect at an angle of 90° are called _____ lines.

A. perpendicular
B. skew
C. parallel

23) Which angles must be supplementary to assure the lines are parallel? Circle all that apply.

A. 1 and 5 B. 1 and 3

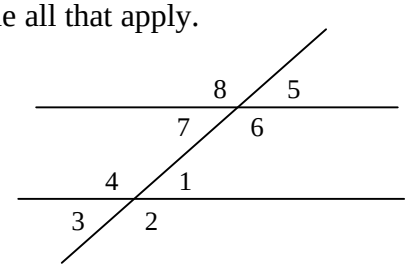
C. 6 and 1 D. 8 and 6



24) Which angles below are alternate interior angles? Circle all that apply.

A. 1 and 3 B. 6 and 1 C. 7 and 3

D. 2 and 6 E. 2 and 5 F. 6 and 4



25) In the diagram below the top of each stair is parallel to the floor. What is the value of y?