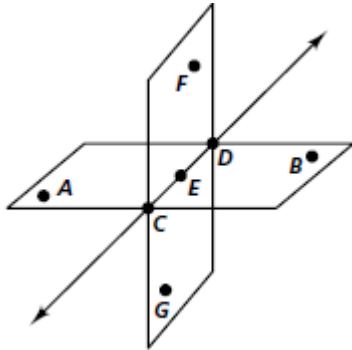


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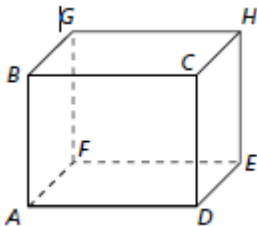
- 1.) How many points can two distinct lines intersect?
 A. 1
 B. 2
 C. 3
 D. Infinitely

Using the diagram below, answer questions 2-3.



- 2.) Which point is not coplanar with points A, D and B on the plane shown?
 A. F B. C
 C. E
- 3.) Points A, B, E, and F
 A. are collinear
 B. are coplanar
 C. are noncoplanar
 D. none of the above
- 4.) What is the coordinates of the image of P(4,12) after a reflection over the y-axis?
 A. P'(4,-12)
 B. P'(-4,-12)
 C. P'(-4,12)
 D. P'(4,12)

- 5.) In this picture, which group of points are noncoplanar?



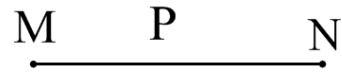
- A. D, A, F, E B. F, G, B, A
 C. E, F, G, H D. G, B, F, D

- 6.) Using symbols, write “the line NM”
 A. \overrightarrow{NM} B. \overline{NM}
 C. \overleftrightarrow{NM} D. \overline{NM}

- 7.) Which of the following could be used to represent a *plane*?
 A. a satellite dish
 B. a pane of glass
 C. the tip of a pin
 D. a can of soda

- 8.) Find the distance between points K (8,6) and V (4,3).
 A. 5 B. 21
 C. 3 D. 50

- 9.) If point P lies between M and N, then which of the following is true?



- A. M lies on \overline{PN}
 B. N lies on \overline{PM}
 C. P lies on \overline{MN}
 D. $\overline{MN} + \overline{MN} = \overline{MP}$
- 10.) What is the measure of \overline{YX} if X is between Y and Z, $YZ = 18$ and $XZ = 2$?

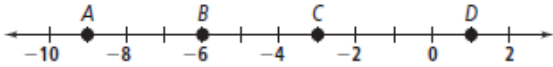
- A. 20 B. 16
 C. 9 D. 12

- 11.) Find the coordinates of the midpoint of M (8, 8) and N (-4, 2)

- A. (-8, 2) B. (2, 5)
 C. (5, 2) D. (3, 5)

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12.) Using the figure below, find the distance of BD .

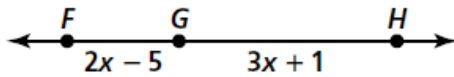


- A. 5
- B. 6
- C. 7
- D. 8

13.) Find the measure of \overline{KL} if K is between J and L, $JK = 5x - 3$, $KL = 7x + 8$, and $JL = 65$.

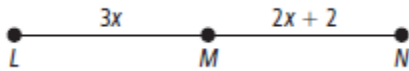
- A. 22
- B. 65
- C. 50
- D. 43

14.) Solve the following problem:
 $FH = 56$. Find the value of x .



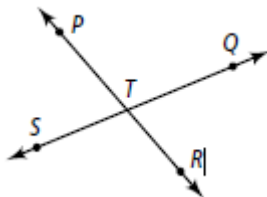
- A. 5
- B. 65
- C. 50
- D. 12

15.) In the figure below, M is the midpoint of LN . Find the value of LM .



- A. $LN = 2$
- B. $LN = 6$
- C. $LN = 12$
- D. $LN = 24$

16.) Given the diagram below, which of the following statements is NOT true?



- A. PR and SQ intersect at point T
- B. PT and TQ are both rays
- C. ST and PR are both segments
- D. PT and QT are opposite rays

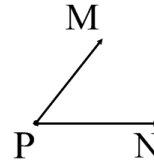
17.) The symbol \perp indicates that two lines are _____.

- A. Parallel
- B. Perpendicular
- C. Intersecting
- D. None of the above

18.) Which of the following can be used to measure an angle?

- A. Protractor
- B. Compass
- C. Ruler
- D. Calculator

19.) Classify the given angle.



- A. Right angle
- B. Obtuse angle
- C. Acute angle
- D. Straight angle .

20.) A(n) _____ angle measures greater than 90 degrees

- A. obtuse
- B. right
- C. acute
- D. straight

21.) The _____ of a segment divides the segment into two congruent segments.

- A. midpoint
- B. bipoint
- C. ray
- D. endpoint

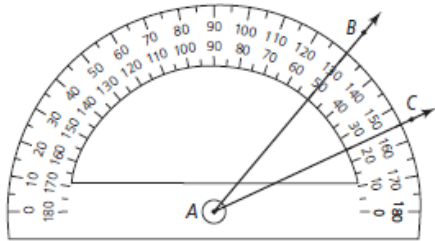
22.) Classify the given angle.



- A. Right angle
- B. Obtuse angle
- C. Acute angle
- D. Straight angle

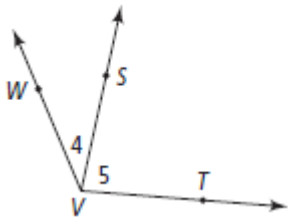
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23.) What is the measure of $\angle BAC$?



- A. 10 B. 25
C. 130 D. 155

24.) What is another name for $\angle 4$?



- A. $\angle SVT$ B. $\angle SWV$
C. $\angle SVW$ D. $\angle VST$

25.) $m\angle ABC = 135$ and $m\angle RST = 135$. What is true about these two angles?

- A. They are both acute angles.
B. They are both right angles
C. They are congruent.
D. They are both straight angles.

26.) Angles that share a side are called

- A. vertical B. supplementary
C. adjacent D. complementary

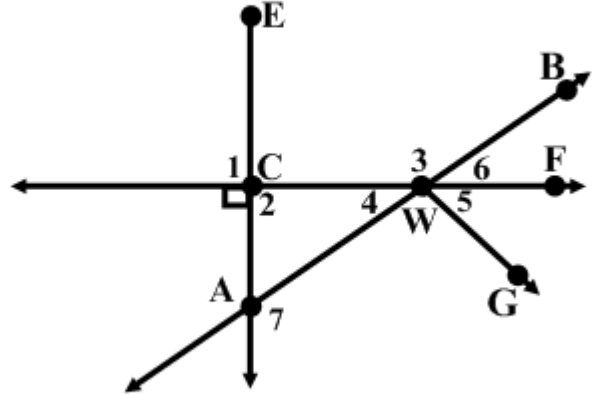
27.) The symbol \parallel indicates that two lines

- A. are parallel
B. are perpendicular
C. intersect
D. none of the above

28.) When _____ lines intersect, they form four 90 degree angles

- A. parallel B. perpendicular
C. skew D. right

Using the diagram below, answer questions



29.) What are the sides of $\angle 5$?

- A. \overline{WB} and \overline{WF} B. \overline{WB} and \overline{WG}
C. \overline{WF} and \overline{WG} D. \overline{WB} and \overline{FW}

30.) $\angle 3$ and $\angle 4$ are...

- A. adjacent B. linear pair
C. Supplementary D. all of these

31.) $\angle 1$ and $\angle 5$ are...

- A. adjacent B. linear pair
C. Supplementary D. none of these

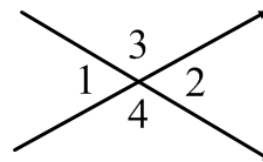
32.) $\angle 1$ and $\angle 2$ are...

- A. adjacent B. vertical
C. Complementary D. a linear pair

33.) Angles that are _____ sum to 90 degrees.

- A. vertical B. complementary
C. linear D. supplementary

34.) If $m\angle 1 = 8x + 2$ and $m\angle 2 = 6x + 20$, find the $m\angle 2$.



- A. 68 B. 74
C. 136 D. 86

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35.) Angles that are _____ sum to 180 degrees.

- A. vertical
- B. complementary
- C. adjacent
- D. supplementary

36.) If two complementary angles have measures of $4x + 14$ and $3x - 22$, find the measure of x .

- A. $x=14$
- B. $x=20$
- C. $x=56$
- D. $x=90$

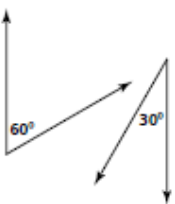
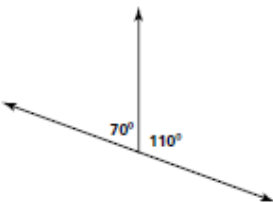
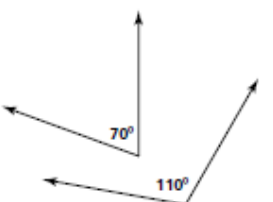
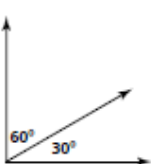
37.) A(n) _____ divides an angle into two congruent angles.

- A. angle bisector
- B. midpoint
- C. ray
- D. segment bisector

38.) Linear angles are always supplementary.

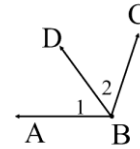
- A. True
- B. False

39.) Which figure below shows a pair of supplementary angles that are not adjacent?

- A. 
- B. 
- C. 
- D. 

40.) If $m\angle ABC = 125$ and $m\angle 2 = 40$, then find $m\angle 1$.

- B. 55
- C. 75
- D. 85



41.) Which of the following is NOT an isometry?

- A. Rotation
- B. Dilation
- C. Reflection
- D. Translation

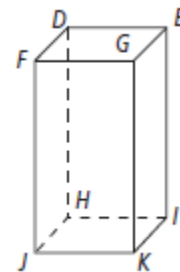
42.) Which of the following is an example of a rotation?

- A. swinging a bat
- B. inflating a balloon
- C. erasing a board
- D. looking in a mirror

43.) Which of the following coordinates represent the image of ABC after a reflection over the x-axis? The points are $A(5,2)$, $B(-1,-1)$, and $C(-3,2)$.

- A. $(5,-2)$ $(-1,1)$ $(-3,-2)$
- B. $(-5,-2)$ $(1,1)$ $(3,-2)$
- C. $(-5, 2)$ $(1,-1)$ $(3, 2)$
- D. $(-2,5)$ $(1, -1)$ $(3, -2)$

Use the figure below for problems 44-46.



44.) Which line segment is parallel to GE ?

- A. DH
- B. FG
- C. KI
- D. HI

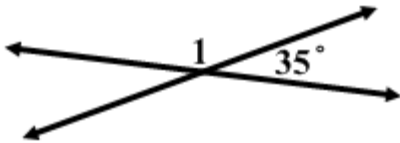
45.) Which two line segments are not parallel?

- A. DF and GE
- B. HD and EI
- C. JH and IK
- D. DE and FJ

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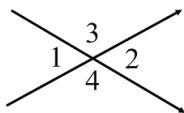
- 46.) Which of the following are parallel planes?
 A. GED and KIH
 B. DFG and GJK
 C. EGK and HIJ
 D. None of the above
- 47.) _____ lines are lines that do not intersect and are on the same plane.
 A. parallel B. perpendicular
 C. skew D. right
- 48.) _____ angles are directly across from each other, formed by intersecting lines, and are congruent.
 A. linear B. intersecting
 C. vertical D. supplementary

49.) Using the figure below, find $m\angle 1$.



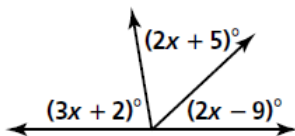
- A. 25 B. 165
 C. 145 D. 15

50.) Refer to the figure below.
 If $m\angle 1 = 7x - 5$ and $m\angle 2 = 5x + 27$,
 what is the value of x ?



- A. 16 B. 32
 C. 107 D. 43

51.) Find the value of x .

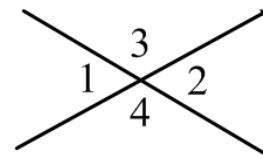


- A. 23
 B. 24
 C. 25
 D. 26

52.) Angles that sum to 90 degrees are considered to be _____.
 A. Supplementary
 B. Complementary
 C. Linear
 D. Adjacent

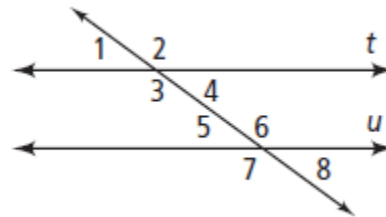
53.) If an angle has a measure of 47 degrees, what is the measure of its *complement*?
 A. 40 B. 43
 C. 85 D. 92

54.) In the figure, which angles form a pair of vertical angles?



- A. $\angle 1$ and $\angle 2$
 B. $\angle 1$ and $\angle 4$
 C. $\angle 2$ and $\angle 3$
 D. $\angle 2$ and $\angle 4$

Use the figure below to answer questions 55 – 61.



55.) Identify the special angle pair name for $\angle 1$ and $\angle 5$.

- A. same-side interior
 B. corresponding
 C. vertical
 D. alternate interior

56.) Name a pair of alternate interior angles in the figure.

- A. $\angle 1$ and $\angle 6$ B. $\angle 1$ and $\angle 3$
 C. $\angle 2$ and $\angle 8$ D. $\angle 4$ and $\angle 5$

57.) Name a pair of same-side interior angles.

- A. $\angle 1$ and $\angle 5$ B. $\angle 3$ and $\angle 5$
 C. $\angle 3$ and $\angle 6$ D. $\angle 2$ and $\angle 8$

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58.) In the figure, $\angle 2$ and $\angle 7$ are called _____ angles

- A. alternate interior
- B. alternate exterior
- C. supplementary
- D. corresponding

59.) Given $t \parallel u$, $m\angle 4 = 63$, find $m\angle 8$.

- A. 27
- B. 63
- C. 105
- D. 117

60.) Given $l \parallel m$, $m\angle 1 = 2x - 3$ and $m\angle 8 = 71$. Find the value of x .

- A. 28
- B. 37
- C. 71
- D. 98

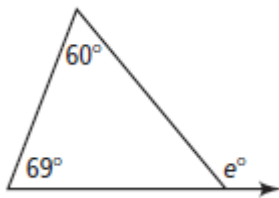
61.) Given $m\angle 3 = 3x - 10$ and $m\angle 5 = 70$. Find the value of x so that $l \parallel m$.

- A. 40
- B. 70
- C. 68
- D. 24

62.) The measures of two angles of a triangle are 52 and 89. What is the measure of the third angle?

- A. 29
- B. 39
- C. 128
- D. 141

63.) Find the measure of e .



- A. 60
- B. 69
- C. 51
- D. 129

64.) Which of the following could be the lengths of a triangle?

- A. 11, 15, 27
- B. 13, 14, 32
- C. 16, 19, 34
- D. 33, 22, 55

65.) A triangle with two congruent sides is considered to be a(n)_____.

- A. Equilateral triangle
- B. Scalene triangle
- C. Isosceles triangle
- D. Right triangle

66.) In $\triangle QXR$, what side is opposite $\angle R$?

- A. \overline{QR}
- B. \overline{QX}
- C. \overline{XR}
- D. $\angle Q$

67.) If $\triangle PQR \cong \triangle DEF$, then \overline{RP} is congruent to...

- A. \overline{PQ}
- B. \overline{DE}
- C. \overline{FD}
- D. \overline{EF}

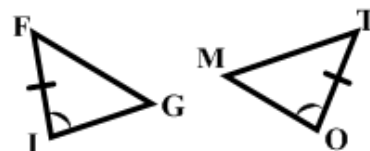
68.) Given $\triangle ABC \cong \triangle XYZ$, $AB = 38$, and $XY = 5x + 8$. Find the value of x .

- A. 30
- B. 20
- C. 6
- D. 4

69.) A triangle with no sides congruent is considered to be a(n)_____.

- A. Isosceles triangle
- B. Scalene triangle
- C. Equilateral triangle
- D. Right triangle

70.) Name one additional pair of corresponding parts that need to be congruent in order to prove that $\triangle FIG \cong \triangle TOM$ by SAS.



- A. $\overline{FG} \cong \overline{MT}$
- B. $\angle F \cong \angle T$
- C. $\overline{IG} \cong \overline{OM}$
- D. $\overline{FI} \cong \overline{OT}$

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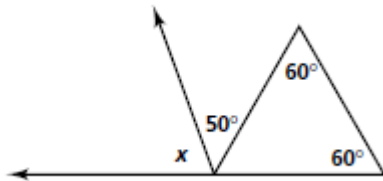
71.) If $\triangle JKL \cong \triangle NOM$, then...

- A. $\overline{JK} \cong \overline{OM}$ B. $\overline{JK} \cong \overline{KL}$
 C. $\overline{KL} \cong \overline{NM}$ D. $\overline{LJ} \cong \overline{MN}$

72.) A triangular table has angles measuring 62° and 56° . What is the measure of the third angle?

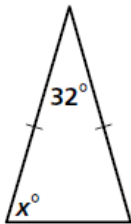
- A. 124 B. 118
 C. 62 D. 56

73.) In the diagram below, what is the measure of x ?



- A. 70 B. 60
 C. 50 D. 40

74.) Find the value of x .



- A. 74
 B. 148
 C. 32
 D. 37

75.) Determine the length of the line segment joining the points $A(-14,2)$ and $B(-2,2)$.

- a) -16 c) -12
 b) 12 d) 16

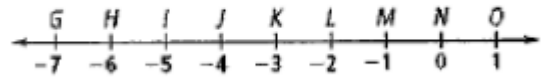
76.) The three undefined terms of geometry are:

- c) Ray, segment, point
 d) Line, ray, segment
 e) Line, plane, point
 f) Line, plane, ray

77.) The set of all points is known as _____.

- g) Plane b) Space
 h) Line d) Coplanar

78.) Name the coordinate of the midpoint of \overline{NH} .



- i) K b) L
 j) J d) H

For 79 and 80, If B is between A and C, find "x".

79.) $AB = x + 2$; $BC = 2x - 6$; $AC = 20$

- k) 28 b) 8
 l) -12 d) 2

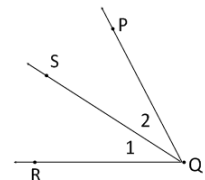
80.) $AB = 24$; $BC = 3x$; $AC = 7x - 4$.

- m) 8 b) 7
 n) (3,-3.5) d) 2

81.) In the figure, \overline{QS} bisects $\angle PQR$, if

$m\angle 1 = 6x + 18$ and $m\angle 2 = 9x$, find $m\angle PQR$.

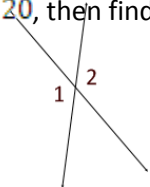
- o) 88
 p) 105
 q) 108
 r) 110



82.) In the figure, $\angle 1$ and $\angle 2$ are vertical angles. If

$m\angle 1 = 8x + 2$ and $m\angle 2 = 6x + 20$, then find $m\angle 2$.

- s) 68
 t) 74
 u) 77
 v) 136



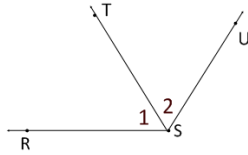
83.) What is the distance between the points $M(6,-16)$ and $Z(-1,14)$ to the nearest tenth?

- w) 5.4 units b) 21.2 units
 x) 30.8 units d) 30.4 units

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84.) \overline{ST} bisects $\angle RSU$, $m\angle 1 = 4x - 12$, $m\angle 2 = 2x + 6$.

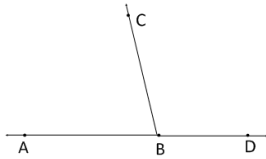
What is the measure of $\angle RSU$?



- a) 18
b) 9
c) 48
d) 1

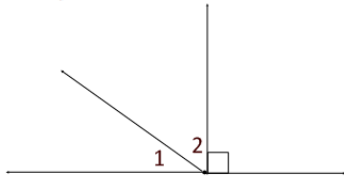
85.) $m\angle ABC = 7x - 2$; $m\angle CBD = 6x + 13$. Find

x.



- a) 89
b) 13
c) 15
d) 169

86.) $m\angle 1 = 4x + 23$, $m\angle 2 = 2x + 1$. Find $m\angle 2$.



- a) 23
b) 90
c) 67
d) 19

87.) What is the equation of a line perpendicular to $y = -4x + 3$?

- A. $y = -4x + 4$
B. $y = -4x + (1/3)$
C. $y = (1/4)x + 5$
D. $y = (-1/4)x - 3$

88.) Determine if AB and CD are parallel, perpendicular, or neither.

A(4,2) B(3,9) C(3,6) D(-4,5)

- a) Parallel
b) Perpendicular
c) Neither

89.) Triangle ABC is equilateral. $AB = 4x + 3$ and $BC = 2x + 9$. Find the length of AC

- A. 12
B. 15
C. 18
D. 21

90.) If $\triangle MON \cong \triangle PQR$ with $MO = 20$, $MN = 32$, and $PR = 3x - 10$, what is the value of "x"?

- A. 5
B. 9
C. 14
D. 10

91.) Quadrilateral ABCD \rightarrow Quadrilateral WXYZ.

Find the preimage of $\angle XYZ$.

- a) $\angle ABC$
b) $\angle BCD$
c) $\angle DCB$
d) $\angle ZYX$

92.) Determine the new points of A(-3,2) if:

$$(x, y) \rightarrow (x + 7, y - 4)$$

- a.) (4,-2)
b.) (-2,4)
c.) (-10, -6)
d.) (-4,-6)

93.) Identify the translation given mapping

$$(-2, 7) \rightarrow (3, 3)$$

- a) $(x,y) \rightarrow (x + 5, y - 4)$
b) $(x,y) \rightarrow (x + 1, y - 4)$
c) $(x,y) \rightarrow (x - 5, y + 4)$
d) $(x,y) \rightarrow (x - 1, y + 4)$