

وزارة التربية والتعليم

مدرسة الحصن للتعليم الثانوي

المراجعة النهائية

في

الرياضيات

الفصل الدراسي الثاني للعام الدراسي 2025-2026

الصف/ العاشر عام

اعداد

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الشعبة /

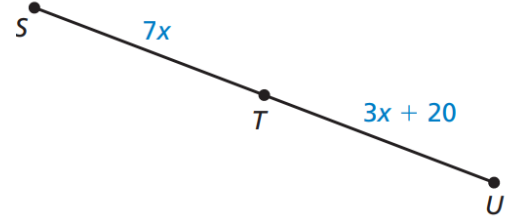
كلنا ناجحون بإذن الله

Part A

الأسئلة الموضوعية – الكتروني

1) T is the midpoint of $\overline{SU}$. Find the value of x

- A) $x=4$
- B) $X =5$
- C) $X = 3$
- D) $X = 6$



2) Name the property that the statement illustrates.

If $\angle T \cong \angle V$ and $\angle V \cong \angle R$, then $\angle T \cong \angle R$.

- A) Transitive Property of Angle Congruence.
- B) Reflexive Property of Angle Congruence.
- C) Symmetric Property of Angle Congruence.
- D) Definition of Congruent Angles.

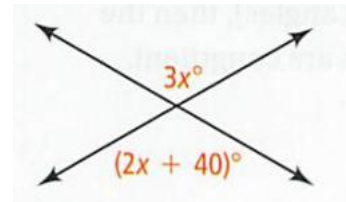
3) Name the property that the statement illustrates.

If $\angle 1 \cong \angle 2$ then $m\angle 1 = m\angle 2$

- A) Definition of congruent angles
- B) Transitive Property of Angle Congruence
- C) Symmetric Property of Angle Congruence.
- D) Reflexive Property of Angle Congruence.

4) What is the value of x?

- A) 100
- B) 110
- C) 120
- D) 40



5) If $\angle A$ and $\angle B$ are supplementary angles and $m\angle A = 4m\angle B$. Find $m\angle B$

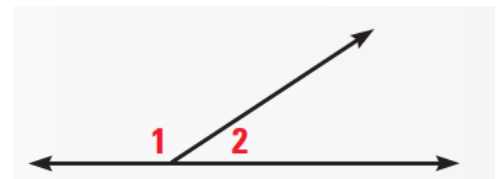
- A) 40
- B) 36
- C) 50
- D) 30

6) $\angle A$ and $\angle B$ are complementary. If $m\angle A = 28^\circ$. Find $m\angle B$

- A) 152°
- B) 62°
- C) 60°
- D) 90°

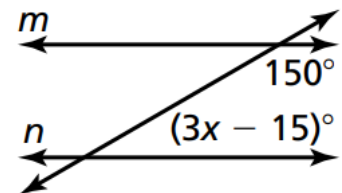
7) If two angles form a linear pair, then they are

- A) supplementary.
- B) Complementary



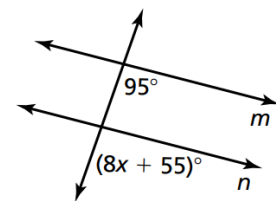
8) Find the value of x that makes $m \parallel n$

- A) 20
- B) 12
- C) 15
- D) 10



9) Find the value of x that makes $m \parallel n$.

- A) 4
- B) 6
- C) 5
- D) 8



10) Find the distance between the pair of parallel lines given by the equations

$$y = -2 \quad \text{and} \quad y = 3$$

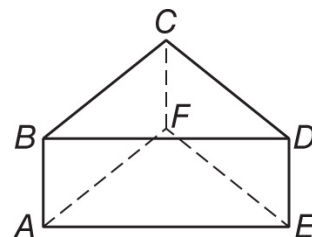
- A) 4
- B) 5
- C) 3
- D) 6

11) Determine the coordinates of S $(-2, 1)$ after a reflection in the line $y = 3$.

- A) $(2, 5)$
- B) $(-2, 5)$
- C) $(-2, -5)$
- D) $(-2, 4)$

12) Identify the plane parallel to plane BCD .

- A) plane ABE
- B) plane AEF
- C) plane ABF
- D) plane DEF

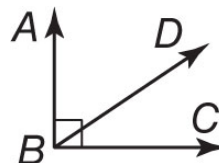


13) If A , B , and N are collinear and $AB + BN = AN$, which point is between the other two points?

- A) A
- B) B
- C) N
- D) cannot tell

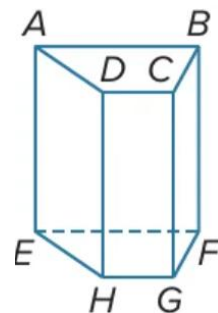
14) If $m \angle ABD = 56$, find $m \angle DBC$.

- A 124
- B 56
- C 44
- D 34



15) In The opposite figure, Identify a segment skew to $\overline{AB}$

- A) $\overline{CD}$
- B) $\overline{HG}$
- C) $\overline{AE}$
- D) $\overline{HD}$

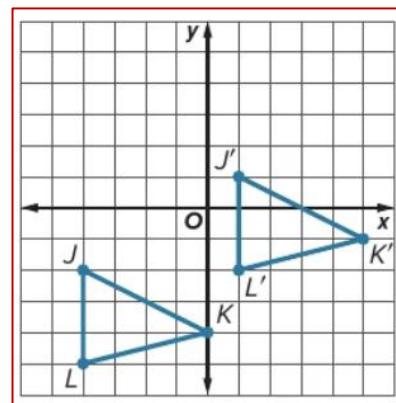


16) Determine the coordinates of **S** $(-2, 1)$ after a reflection in the line $y = 3$.

- A) $(2, 5)$
- B) $(-2, 5)$
- C) $(-2, -5)$
- D) $(-2, 4)$

17) Determine whether a translation maps $\triangle JKL$ onto $\triangle J'K'L'$. If so, find the translation vector. If not, explain why

- A) yes, $\langle 5, 3 \rangle$
- B) yes, $\langle 3, 5 \rangle$
- C) No, this is a reflection.
- D) No, the triangles are not congruent.



18) How many lines of symmetry does a hexagon have?

- A) 3
- B) 5
- C) 4
- D) 3



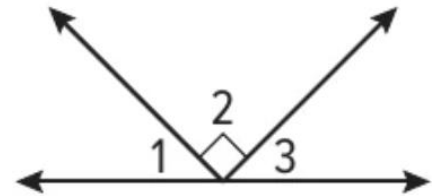
19) Which rotation turns $(3, 4)$ into $(-4, 3)$?

- A. 90° clockwise
- B. 90° counterclockwise
- C. 180°
- D. 360°

20) If $m\angle 1 = 2x$ and $m\angle 3 = 3x$

What is $m\angle 1$ in degree?

- A. 18
- B. 36
- C. 54
- D. 72



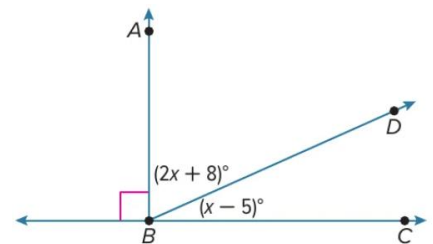
21) The image of the point $F(-3, 1)$ after translation vector $\langle 5, -1 \rangle$

- A) $F'(1, 1)$
- B) $F'(2, 0)$
- C) $F'(-2, 0)$
- D) $F'(2, -1)$

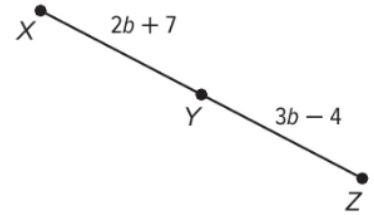
Part B

الأسئلة الكتابية

1) Use the figure below to $m\angle DBC$

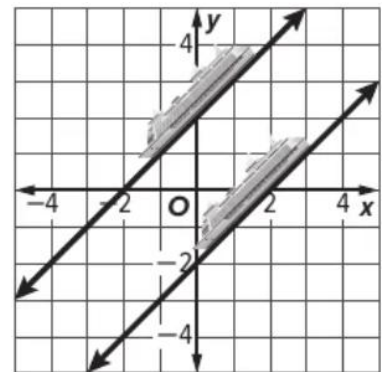


- 2) Points X, Y, and Z are collinear, and Y is the midpoint of $\overline{XZ}$. Find the value of b.



- 3) Write an equation in slope-intercept form for the line that passes through $(-3, 2)$, perpendicular to $y = \frac{1}{2}x + 9$

- 4) Two ships follow the parallel paths shown on the map. If one unit is 1 nautical mile, what is the shortest distance between the two paths?



5) Which is the image of A $(-2, -7)$ after a counterclockwise rotation of 180° about $(-1, 5)$.

6) State the order and magnitude of symmetry for the object below.



7) Refer to the figure at the right.

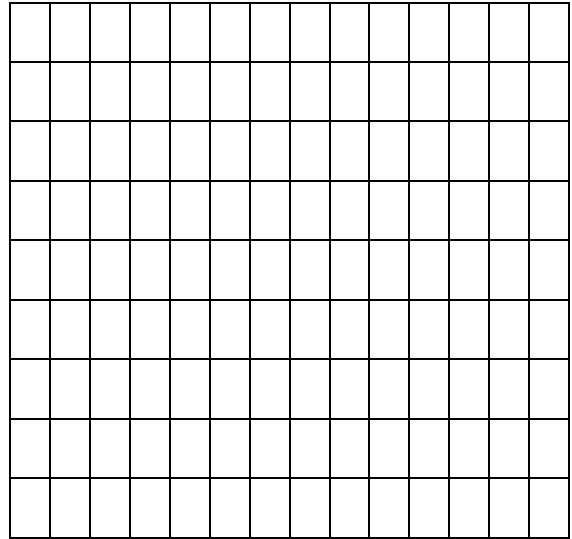
A) Draw the line(s) of symmetry in the figure.

B) Locate the center of symmetry for the figure.

C) What is the order and magnitude of symmetry for the figure.

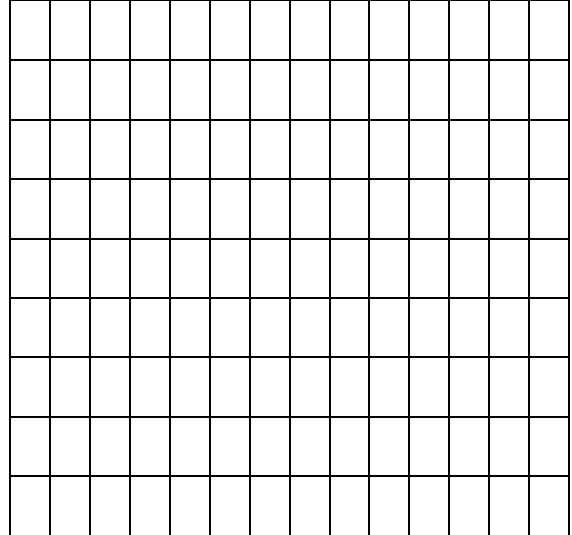


- 8) The line segment XY with endpoints $X(3, 1)$ and $Y(2, -2)$ is rotated 90° counterclockwise about $(-6, 4)$. What are the endpoints of $\overline{X'Y'}$?



- 9) Triangle ABC has vertices $A(1,2)$, $B(4,2)$, and $C(2,5)$.

Graph triangle ABC on a coordinate plane and Reflect triangle ABC across the **x-axis** to obtain triangle $A'B'C'$.



10) Write an equation in slope-intercept form for the line described.
 passes through $(-7, -4)$, perpendicular to $y = x + 9$

11) Determine whether each figure has rotational symmetry. If so, locate the center of symmetry, and state the order and magnitude of symmetry.

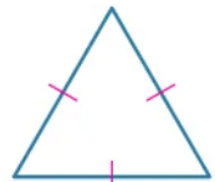
a.



b.



c.



12) Find the value of x that makes $m \parallel \ell$

