2022 - 2023 Geometry_MYA_Review — WITH ANSWERS

1. The endpoints of $\overline{AB}$ are $A(2, 5)$ and $B(-4, 7)$. Find the coordinates of the midpoint.

- **A.** $(3, -1)$
- **B.** $(-2, 12)$
- **C.** $(-1, 6)$ ✔
- **D.** $(3, 6)$

Geometry: FL 2023>Chapter 1>Chapter 1: BEST Test Prep> Question #13

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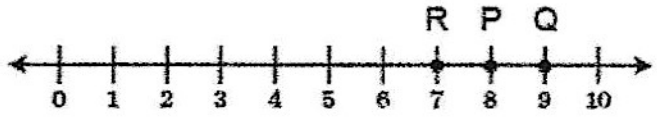
2. In Sam's school, science scores for a year are calculated from the scores of a project, quizzes, and a final exam. The table shows the weight of each criterion.

Criterion	Weight
Project (P)	20%
Quizzes (Q)	25%
Final Exam (R)	55%

The number line shows the scores of Sam in each criterion.



What is Sam's science score for the year?

- 3.3
- 7.7 ✔
- 8.0
- 8.4

Grade 8: FL 2023>Chapter 8> Custom Question

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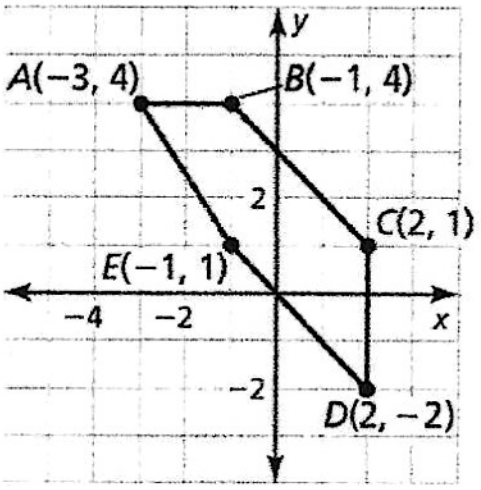
3. Find the area of the polygon.



- A. 9 square units
- B. 12 square units ✔
- C. 17 square units
- D. 24 square units

Geometry: FL 2023>Chapter 1>Chapter 1: BEST Test Prep> Question #6

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4. Which is a counterexample to the conjecture that the sum of three consecutive whole numbers is even?

- A. $-4+(-3)+(-2)=-9$
- B. $1+2+3=6$
- C. $3+5+7=15$
- D. $10+11+12=33$ ✔

Geometry: FL 2023>Chapter 2>Chapter 2: BEST Test Prep> Question #10

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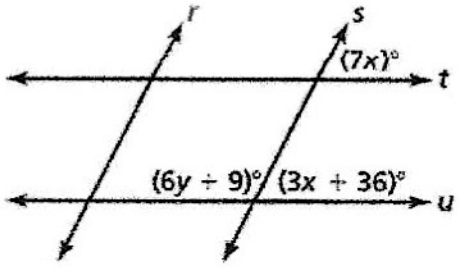
5. What is the value of y that makes $t \parallel u$?



- A. 9
- B. 18 ✔
- C. 63
- D. 117

Geometry: FL 2023>Chapter 3>Chapter 3: BEST Test Prep> Question #8

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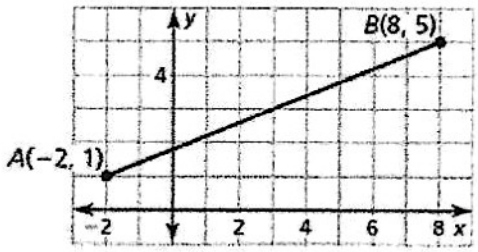
6. Find the coordinates of point P along the directed line segment AB so that the ratio of AP to PB is 1 to 3.



$P($ 1 ☐, 2 ☐$)$

Correct answers:

1 0.5 2 2

Geometry: FL 2023>Chapter 3>Chapter 3: BEST Test Prep> Question #12

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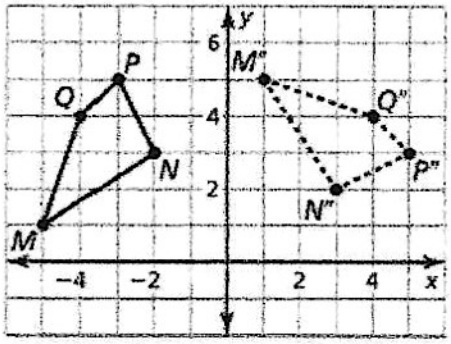
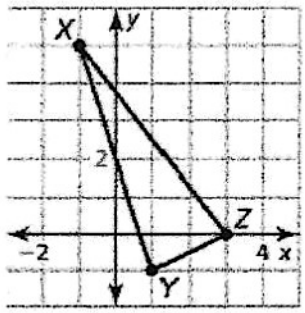
7. Which of the following is a congruence transformation that maps the preimage to the image?



- **A.** reflection in the *x*-axis, followed by a rotation of 180° about the origin
- **B.** reflection in the line $y = x$, followed by a reflection in the *x*-axis ✔
- **C.** rotation of 270° about the origin, followed by a reflection in the *y*-axis
- **D.** reflection in the line $y = -x$, followed by a rotation of 180° about the origin

Geometry: FL 2023>Chapter 4>Chapter 4: BEST Test Prep> Question #8

8. What are the vertices of the image of $\triangle XYZ$ after a reflection in the line $y = -x$, followed by a rotation of 270° about the origin?



- **A.** $X''(-1, -5), Y''(1, 1), Z''(3, 0)$
- **B.** $X''(-1, 5), Y''(1, -1), Z''(3, 0)$
- **C.** $X''(1, 5), Y''(-1, -1), Z''(-3, 0)$ ✔
- **D.** $X''(1, -5), Y''(-1, 1), Z''(-3, 0)$

Geometry: FL 2023>Chapter 4>Chapter 4: BEST Test Prep> Question #9

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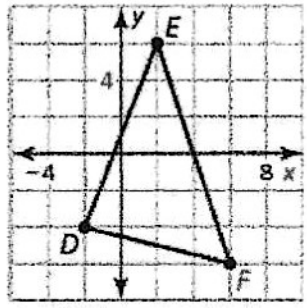
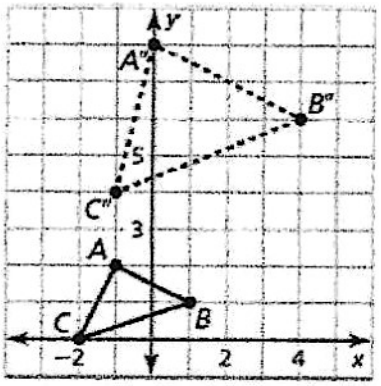
9. What are the vertices of the image of $\triangle DEF$ after a dilation with scale factor 2, followed by a translation 2 units left and 4 units up?



- **A.** $D''(-3, 2), E''(-1, 7), F''(1, 1)$
- **B.** $D''(-6, -4), E''(2, 16), F''(10, -8)$ ✔
- **C.** $D''(-2, 0), E''(0, 5), F''(2, 1)$
- **D.** $D''(-8, 0), E''(0, 20), F''(8, -4)$

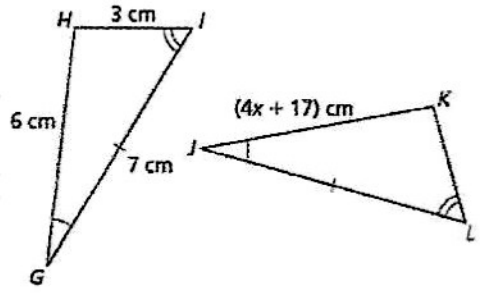
Geometry: FL 2023>Chapter 4>Chapter 4: BEST Test Prep> Question #16

10. Which of the following similarity transformations map $\triangle ABC$ to $\triangle A''B''C''$? Select all that apply.



- [ ] **A.** translation 1 unit right and 2 units up, followed by a dilation with scale factor 2 ✔
- [ ] **B.** dilation with scale factor $\frac{1}{2}$, followed by a translation 1 unit left and 2 units down
- [ ] **C.** dilation with scale factor 2, followed by a translation 2 units right and 4 units up ✔
- [ ] **D.** translation 2 units left and 4 units down, followed by a dilation with scale factor $\frac{1}{2}$
- [ ] **E.** dilation with scale factor 2, followed by a translation 2 units left and 4 units down

11. Find the value of x. Write your answer as a decimal.



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	2	2	2	2	2	2
	3	3	3	3	3	3
	4	4	4	4	4	4
	5	5	5	5	5	5
	6	6	6	6	6	6
	7	7	7	7	7	7
	8	8	8	8	8	8
	9	9	9	9	9	9

Geometry: FL 2023>Chapter 5>Chapter 5: BEST Test Prep> Question #15

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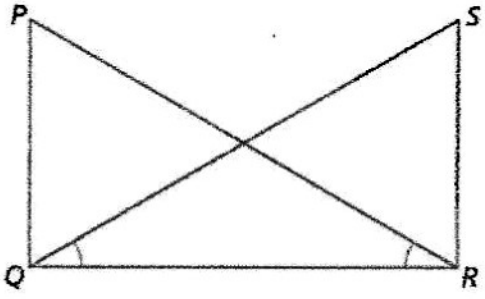
12. What additional information do you need to prove that $\triangle PQR \cong \triangle SRQ$ by the ASA Congruence Theorem?



- A. $\angle P \cong \angle S$
- B. $\overline{PQ} \cong \overline{SR}$
- C. $\angle QRS \cong \angle RQP$ ✔
- D. $\overline{SQ} \cong \overline{PR}$

Geometry: FL 2023>Chapter 5>Chapter 5: BEST Test Prep> Question #18

13. Which point lies on the perpendicular bisector of the segment with endpoints $A(-3, 6)$ and $B(5, 2)$?

- A. $(4, 10)$ ✔
- B. $(2, 2)$
- C. $(3, 3)$
- D. $(5, 6)$

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #2

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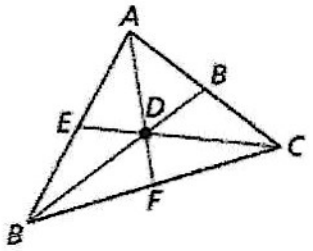
14. Point D is the centroid of $\triangle ABC$, and $DE = 6$. What is CD?



- A. 4
- B. 6
- C. 12 ✔
- D. 18

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #3

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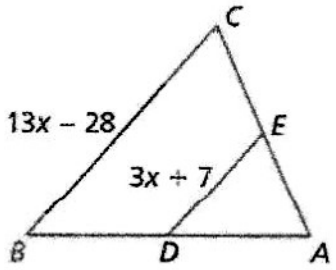
15. $\overline{DE}$ is a midsegment of $\triangle ABC$. What is BC?



- A. 6
- B. 17.5
- C. 35
- D. 50 ✔

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #8

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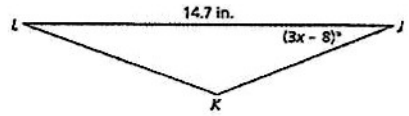
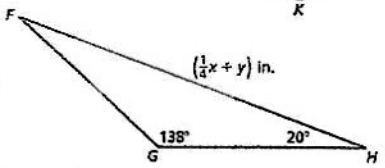
16. $\triangle FGH \cong \triangle JKL$. What is the value of y? Write your answer as a decimal.





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	2	2	2	2	2	2	2
	3	3	3	3	3	3	3
	4	4	4	4	4	4	4
	5	5	5	5	5	5	5
	6	6	6	6	6	6	6
	7	7	7	7	7	7	7
	8	8	8	8	8	8	8
	9	9	9	9	9	9	9

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #10

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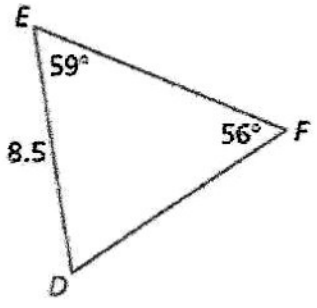
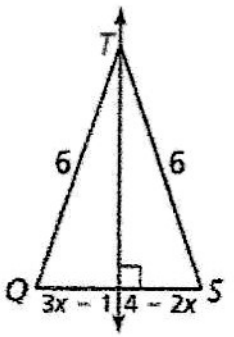
17. In $\triangle DEF$, which is a possible side length for $\overline{DF}$? Select all that apply.



- ☐ **A.** 7.9
- ☐ **B.** 8.2
- ☐ **C.** 8.5
- ☐ **D.** 8.9 ✔
- ☐ **E.** 9.2 ✔

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #15

18. What is the perimeter of $\triangle QTS$?



- A. 13 units
- B. 14 units
- C. 16 units ✔
- D. 18 units

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #17

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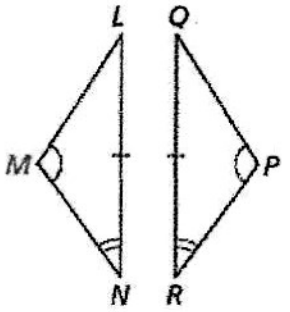
19. Which theorem can you use to prove that $\triangle LMN \cong \triangle QPR$?



- A. SSS Congruence Theorem
- B. SAS Congruence Theorem
- C. ASA Congruence Theorem
- D. AAS Congruence Theorem ✔

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #18

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20. The midpoint of $\overline{RS}$ is $M(-7,\ 2)$. One endpoint is $S(-5,\ 6)$. What are the coordinates of endpoint R?

- A. $(-9, -2)$ ✔
- B. $(-3,\ 10)$
- C. $(-6,\ 4)$
- D. $(-1, -2)$

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #21

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21. Which of the following is the inverse of the conditional statement?

Conditional statement If a polygon is an octagon, then it has eight sides.

- **A.** If a polygon has eight sides, then it is an octagon.
- **B.** If a polygon does not have eight sides, then it is not an octagon.
- **C.** If a polygon is not an octagon, then it does not have eight sides. ✔
- **D.** A polygon is an octagon if and only if it has eight sides.

Geometry: FL 2023>Chapter 6>Chapter 6: BEST Test Prep> Question #22

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22. Below are the steps for constructing the circumscribed circle of a triangle using a compass and straightedge. Which answer choice has the steps in the correct order?

- Circle P is circumscribed about $\triangle XYZ$.
- Place the compass point at P and adjust the setting so that the pencil is at X.
- Given $\triangle XYZ$, construct the perpendicular bisectors of $\overline{XY}$ and $\overline{YZ}$.
- Without changing the compass setting, draw the circle with center P and radius $\overline{XP}$.
- Label the circumcenter P.

- 3, 2, 5, 4, 1
- 3, 5, 2, 4, 1 ✔
- 3, 5, 4, 2, 1
- 1, 3, 5, 2, 4

Geometry: FL 2023>Chapter 6> Custom Question

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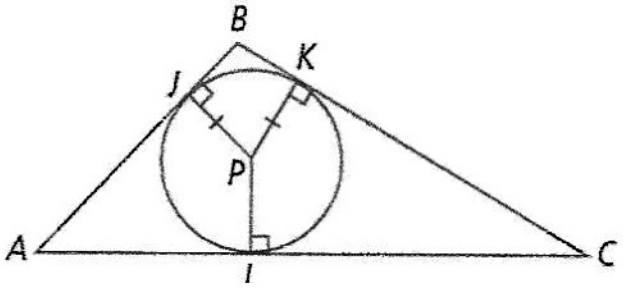
23. A triangle has vertices located at coordinates $(-2,\ 4)$, $(-2,\ -4)$, and $(1,\ 0)$. What are the coordinates of the centroid of this triangle?

- $(5,\ 8)$
- $(0,\ 0)$
- $(-1,\ 0)$ ✔
- $\left(\frac{1}{3},\ 3\right)$

Geometry: FL 2023>Chapter 6> Custom Question

24. What is name of the point indicated by point P in the diagram below?



- centroid
- orthocenter
- incenter ✔
- circumcenter

Geometry: FL 2023>Chapter 6> Custom Question

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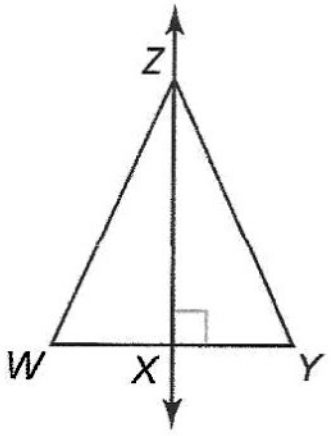
25. Use the figure and the given information to find the indicated measure.

$\overleftrightarrow{ZX}$ is the perpendicular bisector of $\overline{WY}$, $WZ = 4n - 13$, and $YZ = n + 17$.



Find YZ.

$YZ =$ 1 ☐

Correct answers:

1 27

Geometry: FL 2023>Chapter 6>Section 6.1: Perpendicular and Angle Bisectors>6.1: Self-Assessment (1 - 5)> Question #4

26. Your teacher assigns your class a homework problem that asks you to prove the Vertical Angles Congruence Theorem using the picture and information given.

Given $\angle 1$ and $\angle 3$ are vertical angles.

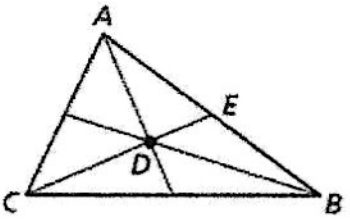
Prove $\angle 1 \approx \angle 3$

Which property must you use in your proof?

- Line Intersection Postulate
- Linear Pair Postulate ✔
- Congruent Complements Theorem
- Reflexive Property of Angle Congruence

Geometry: 2022>Chapter 2>Chapter 2: College & Career Readiness (1 - 8)> Question #8

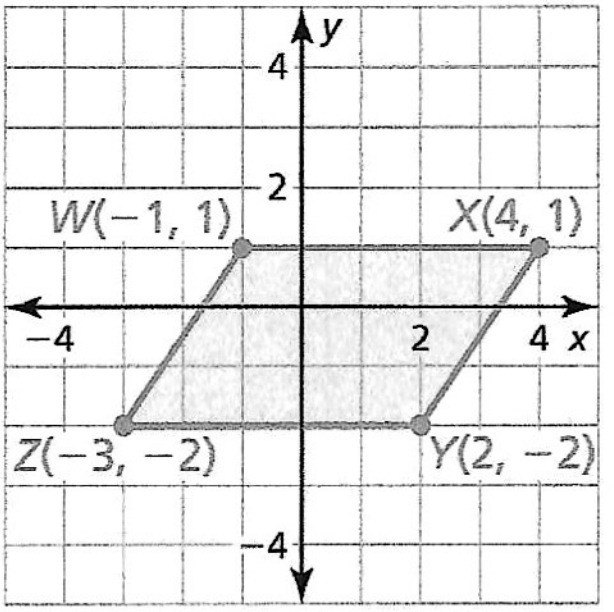
27. Point D is the centroid of $\triangle ABC$, $DC = 8x - 6$, and $ED = 3x + 2$. What is CE?



- **A.** 10
- **B.** 15
- **C.** 34
- **D.** 51 ✔

Geometry: FL 2023>Chapter 9>Chapter 9: BEST Test Prep> Question #12

28. Find the area of the polygon with the given vertices.

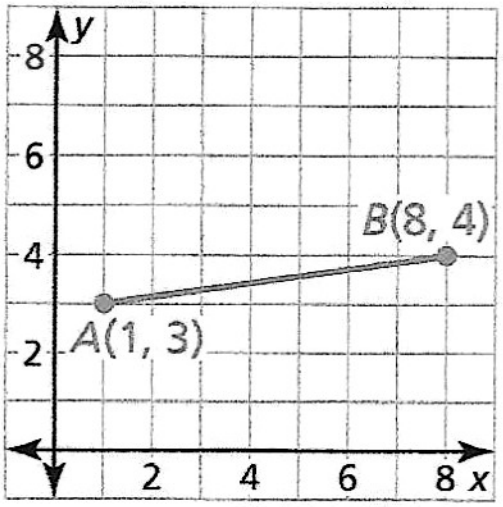


1 ☐ square units

Correct answers:

1 15

29. Find the coordinates of point P along the directed line segment AB so that AP to PB is in the ratio 4 to 1. Round your answers to the nearest tenth.

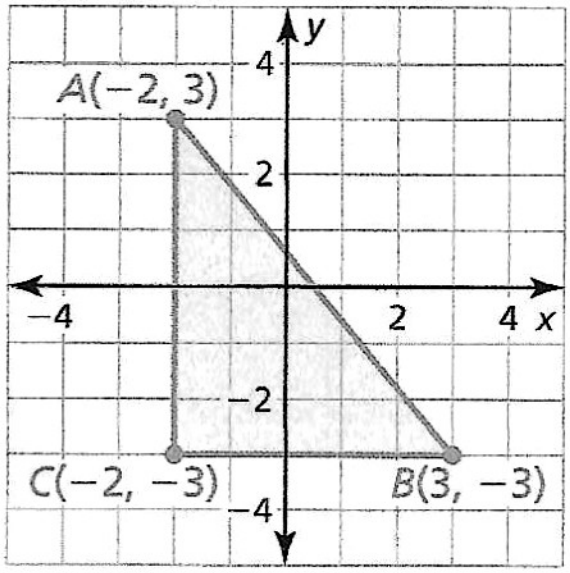


Coordinates: $P($ 1 [ ], 2 [ ] $)$

Correct answers:

1 6.6 2 3.8

30. Find the area of the polygon with the given vertices.



1 ☐ square units

Correct answers:

1 15

Geometry: 2022>Chapter 1>Section 1.4: Perimeter and Area in the Coordinate Plane>Section 1.4: Self-Assessment (7 - 10)> Question #7

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31. Find the perimeter of the polygon with the given vertices. Round your answer to the nearest hundredth, if necessary.

$G(-3, 2), H(2, 2), J(-1, -3)$

The perimeter is about 1 ☐ units.

Correct answers:

1 16.22

Geometry: 2022>Chapter 1>Section 1.4: Perimeter and Area in the Coordinate Plane>Section 1.4: Self-Assessment (5 - 6)> Question #5

32. Find the perimeter and the area of $\triangle DEF$ with vertices $D(-2,\ 2)$, $E(4,\ 2)$, and $F(2,\ 5)$. Round to the nearest hundredth if necessary.

Perimeter: 1 [ ] units

Area: 2 [ ] square units

Correct answers:

1 14.61 2 9

Geometry: FL 2023>Chapter 4>Section 4.1: Translations>4.1: Review & Refresh (42 - 54)> Question #54

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33. Given the points $A(-4,\ 1)$ and $B(8,\ -7)$, find the coordinates of point P along the directed line segment AB so the ratio of AP to PB is 1 to 3.

$P($ 1 [ ], 2 [ ] $)$

Correct answers:

1 -1 2 -1

Geometry: 2022>Chapter 9>Section 9.5: The Sine and Cosine Ratios>Section 9.5: Review & Refresh (38 - 50)> Question #50

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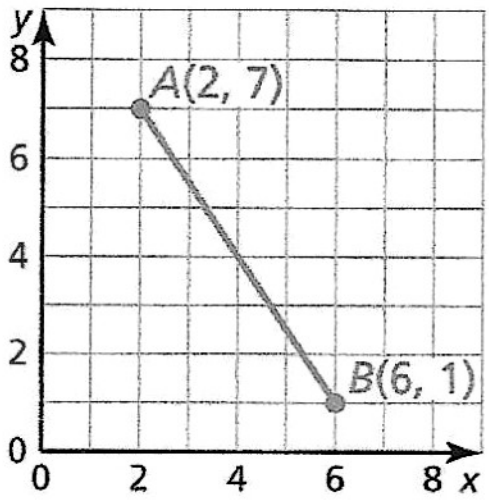
34. Find the coordinates of point P along the directed line segment AB so that the ratio of AP to PB is 5 to 3.

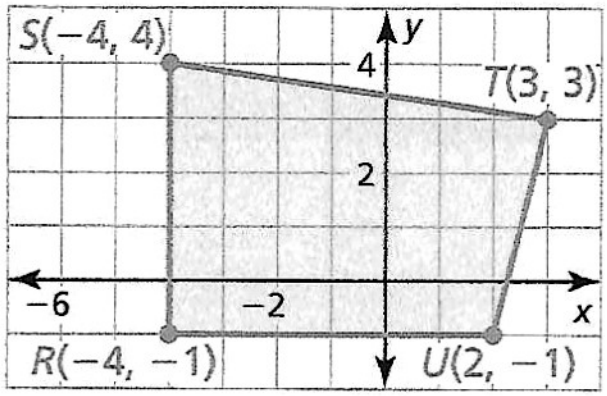


$P($ 1 ☐, 2 ☐$)$

Correct answers:

1 $4\frac{1}{2}$ 2 $3\frac{1}{4}$

35. Find the perimeter of quadrilateral $RSTU$ in the coordinate plane at the right. Round your answer to the nearest tenth place if necessary.



About 1 [ ] units

Correct answers:

1 22.2

Geometry: FL 2023>Chapter 1>Chapter 1: Chapter Review (1 - 36)> Question #24

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36. The vertices of $\triangle ABC$ have coordinates A(2, 4), B(1, 1), and C(4,−1). If $\triangle ABC$ is transformed following the rule $(x,\ y) \rightarrow (x-6,\ y-7)$, what are the coordinates of the image $\triangle A'B'C'$?

- A'(−4, −3), B'(−5, −6), and C'(−2, −8) ✔
- A'(8, 9), B'(7, 8), and C'(10, 6)
- A'(−8, −9), B'(−7, −8), and C'(2, 8)
- A'(4, 3), B'(5, 6), and C'(2, 8)

Geometry: FL 2023>Chapter 4> Custom Question

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37. What is the contrapositive of the following statement?

If two angles are not complementary, then the sum of their measures does not equal $90°$.

- If two angles are not complementary, then the sum of their measures equals $90°$.
- If the sum of the measures of two angles equals $90°$, then the angles are complementary. ✔
- If two angles are complementary, then the sum of their measures equals $90°$.
- If the sum of the measures of two angles equals $90°$, then the angles are not complementary.

Geometry: FL 2023>Chapter 2> Custom Question

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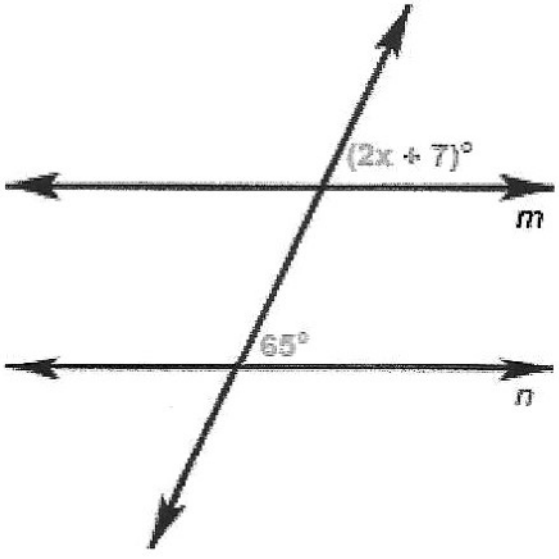
38. Find the value of x that makes $m \parallel n$.



Lines m and n are parallel when $x =$ 1 [ ].

Correct answers:

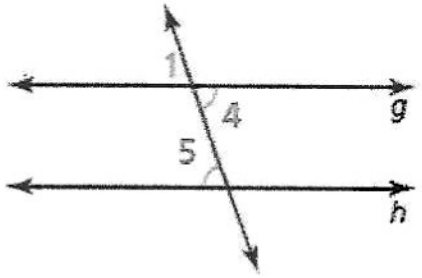
1 29

Geometry: FL 2023>Geometry MOY Items> Question #1

39. Complete the two-column proof of the Alternate Interior Angles Converse.

Given $\angle 4 \cong \angle 5$

Prove $g \parallel h$



STATEMENTS	REASONS
1. $\angle 4 \cong \angle 5$	1. Given
2. $\angle 1 \cong \angle 4$	2. 1 [ ]
3. $\angle 1 \cong \angle 5$	3. Transitive Property of Congruence
4. $g \parallel h$	4. 2 [ ]

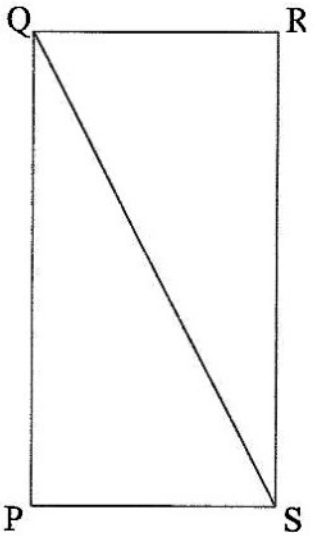
- Congruent Supplements Theorem
- Corresponding Angles Converse
- Reflexive Property of Congruence
- Right Angles Congruence Theorem
- Vertical Angles Congruence Theorem

Correct answers:

1 Vertical Angles Congruence Theorem

2 Corresponding Angles Converse

40. Use rectangle *PQRS* to fill in the blanks.



In a rectangle the lengths of opposite sides are equal which means [1] ≅ [2].

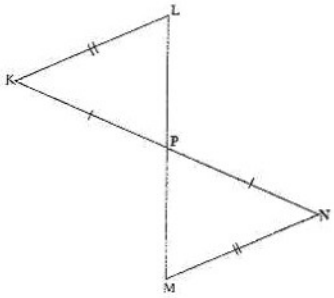
Triangles *PQS* and *RSQ* can be proven congruent by Hypotenuse-Leg because [3] is the hypotenuse for both triangles.

Correct answers:

1 PQ 2 RS 3 QS

41. Given: $\overline{KP} \cong \overline{NP}$, $\overline{KL} \cong \overline{NM}$, P is the midpoint of $\overline{LM}$.

Prove: $\triangle KLP \cong \triangle NMP$



STATEMENTS	REASONS
1. $\overline{KP} \cong \overline{NP}$ and $\overline{KL} \cong \overline{NM}$.	1. Given
2. P is the midpoint of $\overline{LM}$	2. Given
3. $\overline{LP} \cong \overline{MP}$	3. 1 [ ]
4. $\triangle KLP \cong \triangle NMP$	4. 2 [ ]

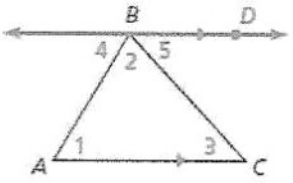
- Corresponding parts of congruent triangles are congruent
- Definition of a midpoint
- Definition of Angle Bisector
- SAS Congruence Theorem
- SSS Congruence Theorem
- Substitution Property of Equality
- Transitive Property of Equality

Correct answers:

1 Definition of a midpoint

2 SSS Congruence Theorem

42. Complete the two-column proof of the Triangle Sum Theorem.



Given: $\triangle ABC$

Prove:
$m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$

STATEMENTS	REASONS
1.	1. Parallel Postulate
2.	2. Angle Addition Postulate and definition of straight angle
3. $\angle 1 \cong \angle 4,\ \angle 3 \cong \angle 5$	3. Alternate Interior Angles Theorem
4. $m\angle 1 = m\angle 4,\ m\angle 3 = m\angle 5$	4. Definition of congruent angles
5. $m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$	5. Substitution

Property of

Equality

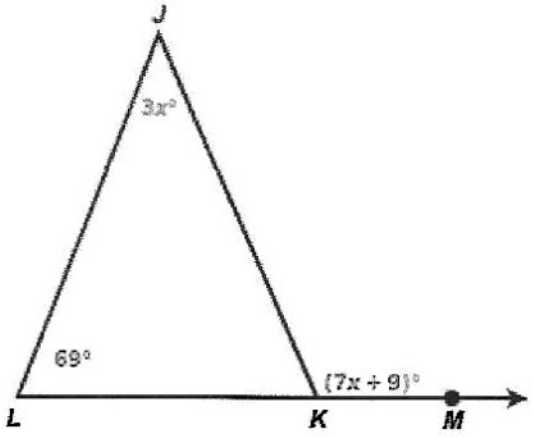
- $m\angle 4 + m\angle 2 + m\angle 5 = 180°$
- Draw $\overleftrightarrow{BD}$ parallel to $\overline{AC}$.
- $\angle 1 \cong \angle 5,\ \angle 3 \cong \angle 4$
- $m\angle 1 + m\angle 4 = m\angle 3 + m\angle 5$

Correct answers:

1 Draw $\overleftrightarrow{BD}$ parallel to $\overline{AC}$.

2 $m\angle 4 + m\angle 2 + m\angle 5 = 180°$

43. $\triangle JLK$ lies on $\overrightarrow{LM}$. Find the measure of $\angle JKM$.



The $m\angle JKM$ is 1 ☐°.

Correct answers:

1 114

Geometry: FL 2023>Geometry MOY Items> Question #6

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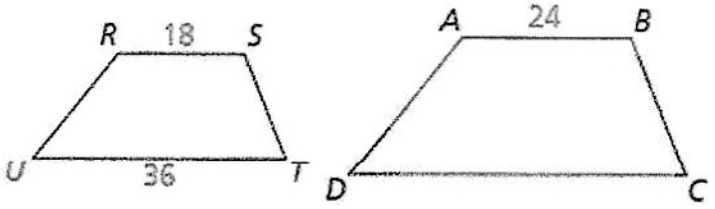
44. In the diagram, $RSTU \sim ABCD$. What is the length of $\overline{DC}$?



$DC =$ 1 ☐

Correct answers:

1 48

Geometry: FL 2023>Geometry MOY Items> Question #8

45. Triangle ABC with vertices $A\,(5, 2)$, $B\,(-4, 4)$, and $C\,(3,\ 7)$ is translated to the left 3 units.

What are the coordinates of the triangle $A'B'C'$ after the translation?

A' is (1 [ ], 2 [ ])

B' is (3 [ ], 4 [ ])

C' is (5 [ ], 6 [ ])

Correct answers:

1 2 2 2 3 −7 4 4 5 0 6 7

Geometry: FL 2023>Geometry MOY Items> Question #9

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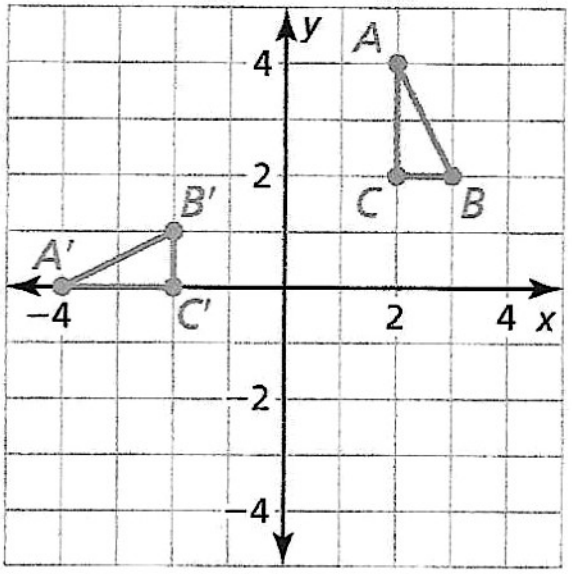
46. Identify whether each transformation of a polygon preserves distance and/or angle measures.

	Yes, preserves distance	No, does not preserve distance	Yes, preserves angle measures	No, does not preserve angle measures
A clockwise rotation about the origin.	☑	☐	☑	☐
A dilation by 3.	☐	☑	☑	☐
A reflection over the line $y = -1$.	☑	☐	☑	☐
A translation up 4 units and left 5 units.	☑	☐	☑	☐

Geometry: FL 2023>Geometry MOY Items> Question #10

47. Describe a transformation that maps the blue figure, $\triangle ABC$, to the red figure, $\triangle A'B'C'$.



One possible transformation is a [1], followed by a [2].

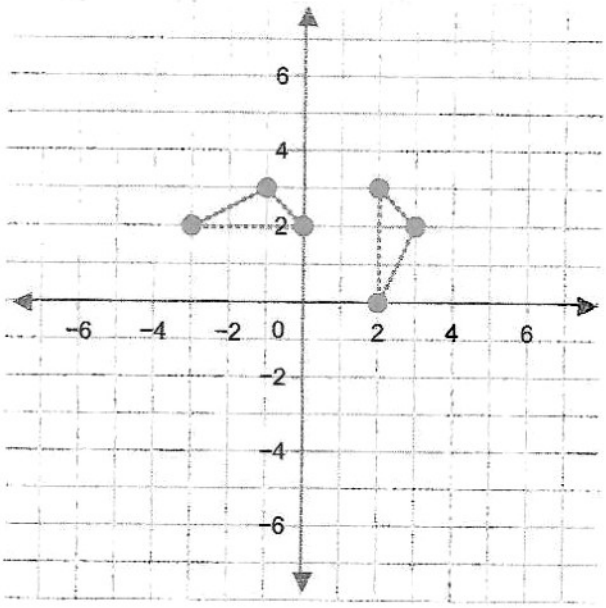
Correct answers:

1 rotation 270° clockwise about the origin

2 translation 2 units down

Geometry: FL 2023>Geometry MOY Items> Question 511

48. Graph $\triangle ABC$ with vertices $A(2, 3)$, $B(2, 0)$, and $C(3, 2)$ and its image after a $90°$ clockwise rotation about the origin and a reflection in the y-axis.



Geometry: FL 2023>Geometry MOY Items> Question #12

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49. The endpoints of $\overline{AB}$ are $A(-4, 1)$ and $B(-2, 5)$. Find the coordinates of the midpoint M.

The coordinates of the midpoint M are (1 ☐, 2 ☐).

Correct answers:

1 −3 2 3

Geometry: FL 2023>Geometry MOY Items> Question #15

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50. Find the coordinates of point P along the directed line segment AB so that AP to PB is the given ratio.

$A(-7, -5)$, $B(-2, 0)$; 1 to 4

The coordinates of P are (1 ☐, 2 ☐).

Correct answers:

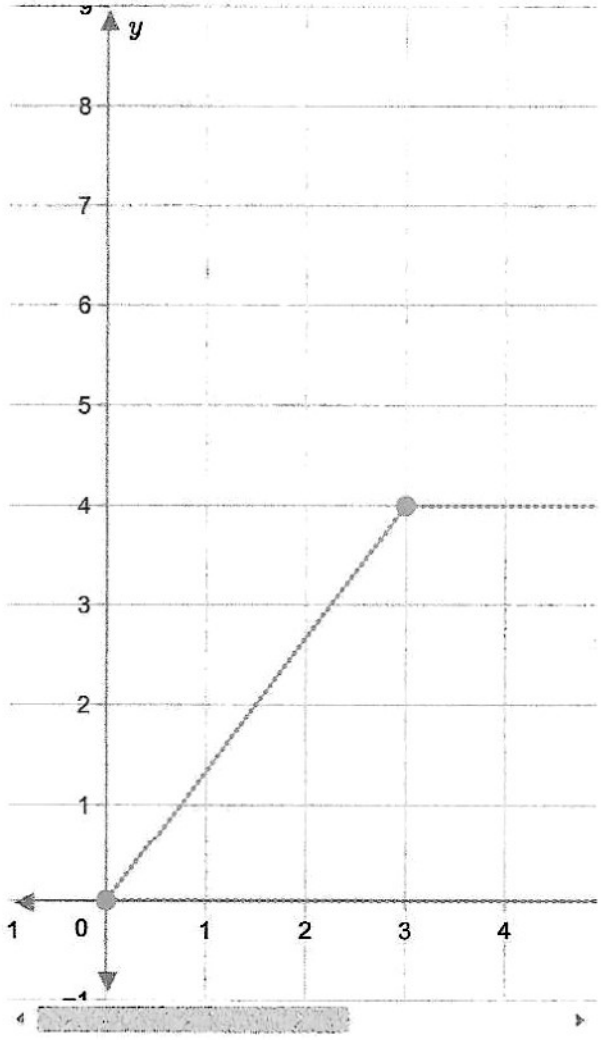
1 -6 2 -4

Geometry: FL 2023>Geometry MOY Items> Question #14

51. A dog park is being built near your school. The four vertices of the dog park can be represented on the coordinate plane at the following points:

(0, 0), (6, 0), (6. 4), (3, 4)

Part A: Connect the four vertices of the dog park on the coordinate grid to show the shape of the park.



Part B: Each square unit on the coordinate gird measures 10 yards by 10 yards. What is the perimeter of dog park?

1 ☐ yards

Correct answers:

1 180

Geometry: FL 2023>Geometry MOY Items> Question #17

52. You design a tree house using a coordinate plane in which the coordinates are measured in meters (m). The vertices of the rectangular floor are $(0,\ 5)$, $(4,\ 3)$, $(4, 13)$, and $(8,\ 11)$.

Part A: What is the perimeter of the tree house floor?

1 ☐ m

Part B: What is the area of the tree house floor?

2 ☐ m^2

Correct answers:

1 26.8 ± 0.4 2 40 ± 0.2

Geometry: FL 2023>Geometry MOY Items> Question #16

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53. Select the counterexample that shows that the conjecture is false.

Conjecture: If line l intersects $\overline{AB}$ at point P, then line l is the segment bisector of $\overline{AB}$.

- If another line intersects $\overline{AB}$, then line l is not the only segment bisector of $\overline{AB}$.
- Line l must intersect $\overline{AB}$ at a right angle in order to be the segment bisector of $\overline{AB}$.
- If line l intersects $\overline{AB}$ anywhere besides the midpoint, it is not the segment bisector of $\overline{AB}$. ✔
- If line l intersects $\overline{AB}$ at the midpoint, it is the perpendicular bisector of $\overline{AB}$.

Geometry: FL 2023>Geometry MOY Items> Question #7

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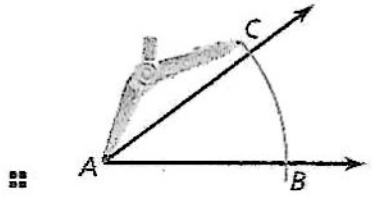
54. Order the steps to construct an angle bisector of $\angle A$ with a compass and straightedge.

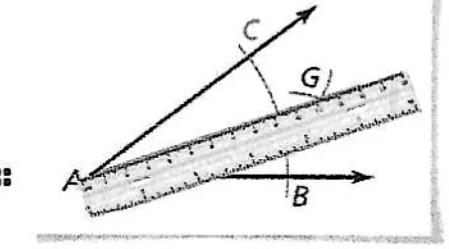
Step 1 ____ 1

Step 2 ____ 2

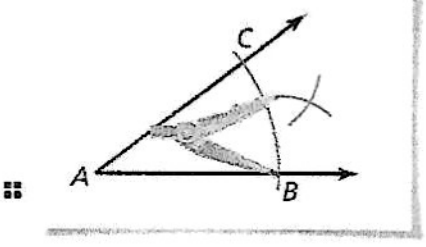
Step 3 ____ 3



Draw an arc Place the compass at A. Draw an arc that intersects both sides of the angle. Label the intersections B and C.



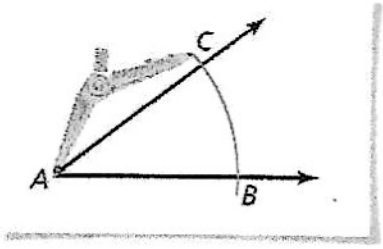
Draw a ray Label the intersection G. Use a straightedge to draw a ray through A and G.



Draw arcs Place the compass at C. Draw an arc. Then place the compass point at B. Using the same radius, draw another arc.

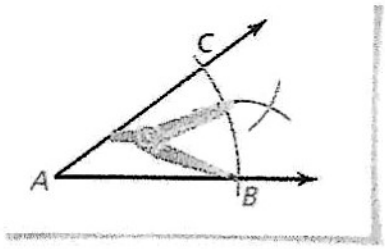
Correct answers:

1



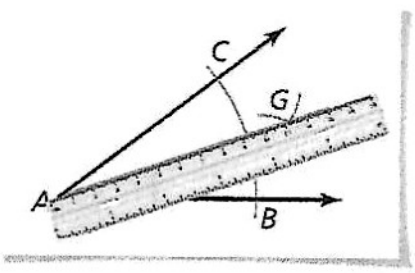
Draw an arc Place the compass at A. Draw an arc that intersects both sides of the angle. Label the intersections B and C.

2



Draw arcs Place the compass at C. Draw an arc. Then place the compass point at B. Using the same radius. draw another arc.

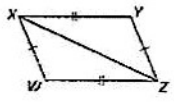
3



Draw a ray Label the intersection G. Use a straightedge to draw a ray through A and G.

55. Which reason corresponds with the second statement in the proof, "$\overline{XZ} \cong \overline{ZX}$?"

Given
$\overline{WX} \cong \overline{YZ}$, $\overline{XY} \cong \overline{ZW}$
Prove $\triangle WXZ \cong \triangle YZX$



STATEMENTS	REASONS
1. $\overline{WX} \cong \overline{YZ}$, $\overline{XY} \cong \overline{ZW}$	1. Given
2. $\overline{XZ} \cong \overline{ZX}$	2.
3. $\triangle WXZ \cong \triangle YZX$	3. SSS Congruence Theorem

A. Corresponding parts of congruent triangles are congruent.

B. Reflexive Property of Segment Congruence ✔

C. Symmetric Property of Segment Congruence

D. Definition of congruent segments

Geometry: FL 2023>Chapter 5>Chapter 5: BEST Test Prep> Question #17

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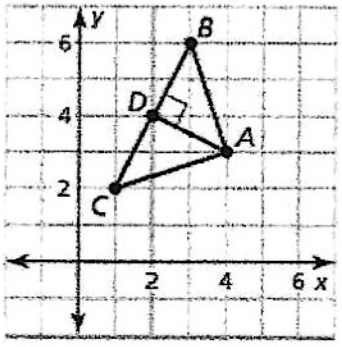
56. What is the area of the triangle?



A. $\frac{\sqrt{5}}{2}$ square units

B. $\sqrt{5}$ square units

C. 5 square units ✔

D. 10 square units

Geometry: FL 2023>Chapter 4>Chapter 4: BEST Test Prep> Question #10

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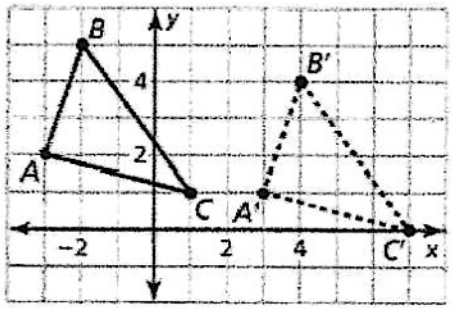
57. Write a rule for the translation of $\triangle ABC$ to $\triangle A'B'C'$.



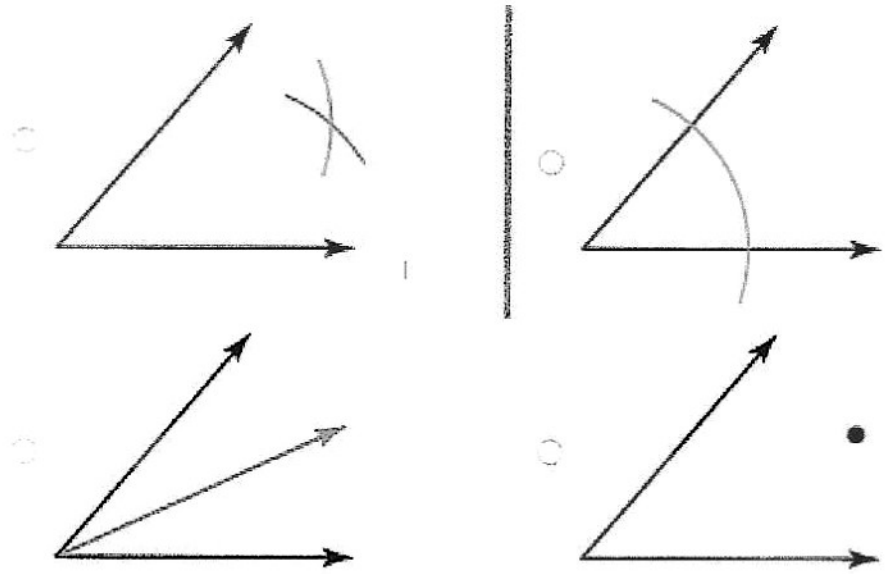
$(x, y) \rightarrow$ (1 [ ], 2 [ ])

Correct answers:

1 $x + 6$ 2 $y - 1$

Geometry: FL 2023>Chapter 4>Chapter 4: BEST Test Prep> Question #13

58. **CONSTRUCTING** Which diagram shows the first step in constructing the angle bisector using a compass and straightedge?



Geometry: 2022>Chapter 1>Section 1.5: Measuring and Constructing Angles>Section 1.5: Practice (1 - 52)> Question #29

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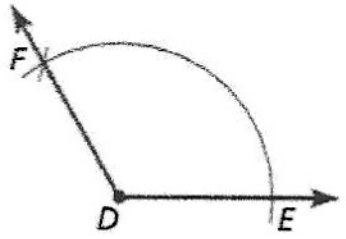
59. Consider the partial construction of $\angle S$ with the same measure as $\angle P$. What is the next step in the construction?

- Draw a ray through S that intersects the arc.
- Draw a ray through T that intersects the arc.
- Draw an arc with radius QR and center T.
- Draw an arc with radius PQ and center T.

Geometry: FL 2023>Chapter 2>Chapter 2: B.E.S.T. Test Prep (1 - 8)> Question #5

60. The angle shown, $\angle FDE$, was constructed as a copy of $\angle CAB$.



Complete the following statements describing the construction of $\angle FDE$.

Draw horizontal ray [1] [ ].

Draw an arc through E that looks like, and has the same radius as an arc through [2] [ ].

Draw a small arc centered at E with a radius of length [3] [ ] to intersect the arc through E. Label the intersection F.

Draw ray [4] [ ].

Correct answers:

1 DE 2 C and B 3 BC 4 DF

61. Arrange the steps in order to construct a segment bisector by paper folding .

≡ Fold the paper in half so that point R touches point S.

1 **Correct answer:** On a piece of paper, draw $\overline{RS}$.

≡ On a piece of paper, draw $\overline{RS}$.

2 **Correct answer:** Fold the paper in half so that point R touches point S.

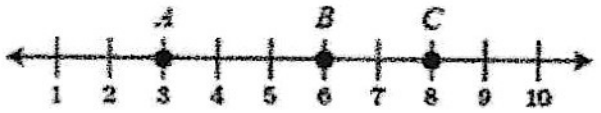
≡ Label the point as M.

3 **Correct answer:** In the folded part, make a point on the segment $\overline{RS}$.

≡ In the folded part, make a point on the segment $\overline{RS}$.

4 **Correct answer:** Label the point as M.

62. The points A, B, and C are shown on a number line. Their weights are 0.3, 0.6, and 0.1 respectively.



What is the weighted average of points A, B, and C?

- 5.3
- 5.7
- 6.3
- 6.7