

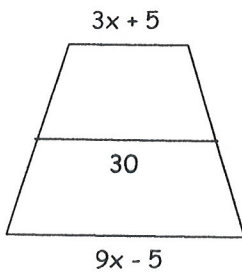
Trapezoids and Classifying Quads Practice

Name _____

Date _____ Block _____

Given the isosceles trapezoid with its midsegment, find the value of x . Diagrams are not drawn to scale.

1. $x = 5$

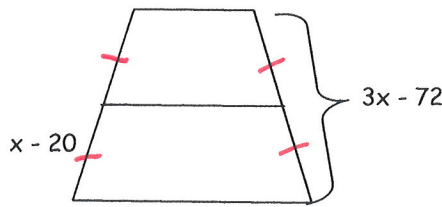


$$3x + 5 + 9x - 5 = 60$$

$$12x = 60$$

$$x = 5$$

2. $x = 32$

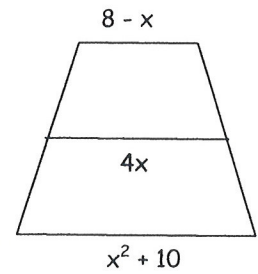


$$2(x - 20) = 3x - 72$$

$$2x - 40 = 3x - 72$$

$$32 = x$$

3. $x = 6 \text{ or } 3$



$$x^2 + 10 + 8 - x = 8x$$

$$x^2 - 9x + 18 = 0$$

$$(x - 6)(x - 3) = 0$$

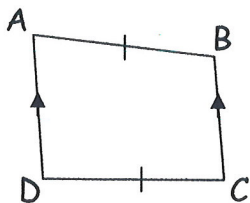
$$x = 6 \text{ or } 3$$

Put an X in the box if the shape ALWAYS has the given property.

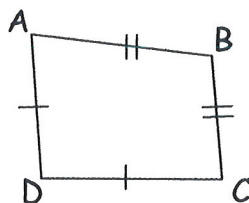
Property of the Quadrilateral		Rectangle	Rhombus	Square	Trapezoid	Kite
4. The diagonals are \cong		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <i>isos Trap!</i>	<input checked="" type="checkbox"/>
5. The diagonals are \perp		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6. The diagonals bisect each other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. All sides are congruent		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8. Consecutive angles are supplementary	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9. 1 pair of opposite angles are \cong		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. All angles are congruent		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11. The diagonals bisect opposite angles		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Give the BEST name for the quadrilateral that meets the given conditions. It is not drawn to scale.

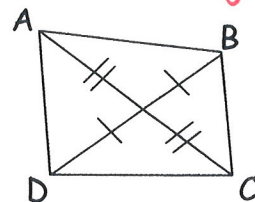
12. Isosceles Trap.



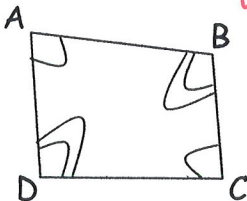
13. Kite



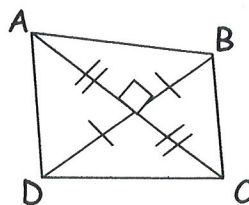
14. Parallelogram



15. Parallelogram



16. Rhombus



17. Rectangle

