

September 17, 2018

What is the scale factor

$10 \times f = 15$
 $\frac{15}{10} = 1.5$
 $\frac{12}{8} = 1.5$
 $\frac{9}{6} = 1.5$

Find the value of x and the length of segment DE.

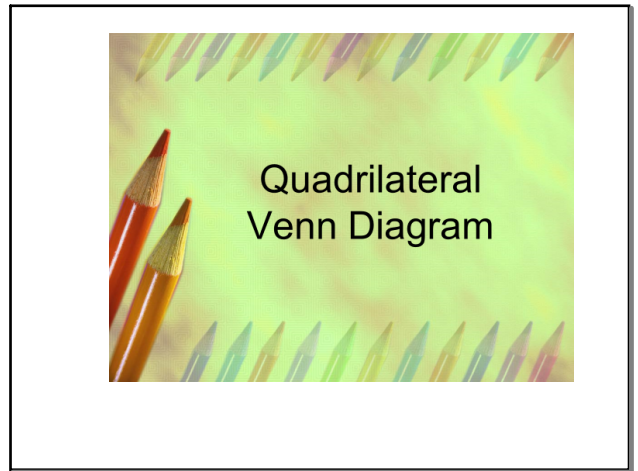
$DE = 12$
 $x - y = 12$
 $\frac{-1}{+1}$
 $x = 3$

Find the height of the tree.

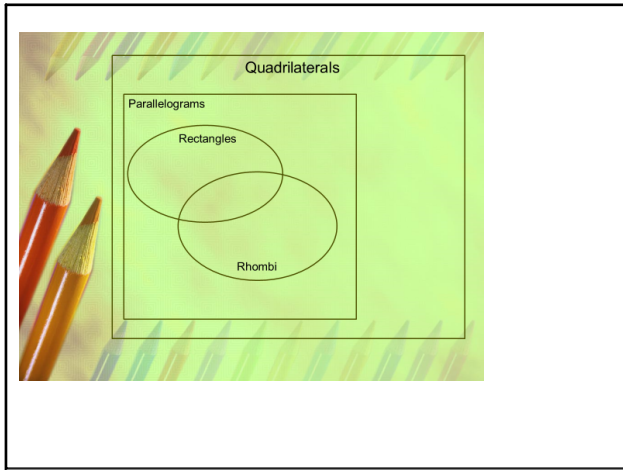
RIGHT
Bottom

$\frac{2}{3} = \frac{t}{30}$
 $\frac{3t}{3} = \frac{60}{3}$
 $t = 20$

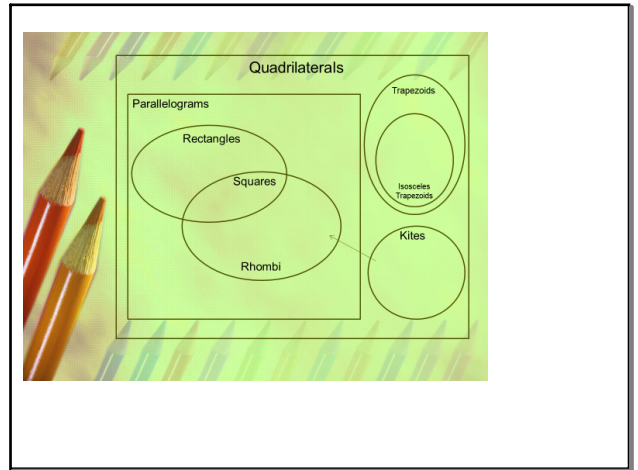
Sep 14-8:11 AM



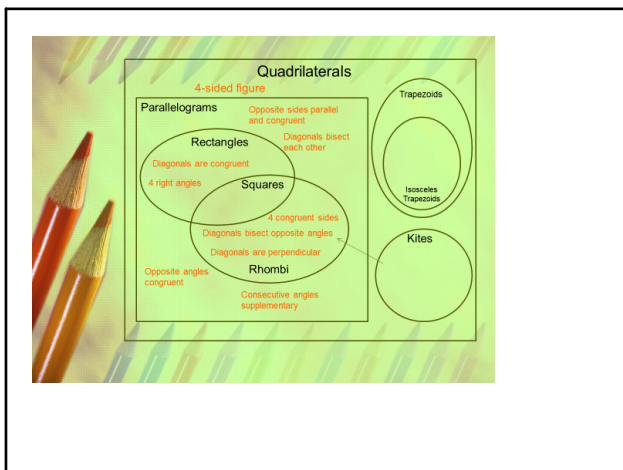
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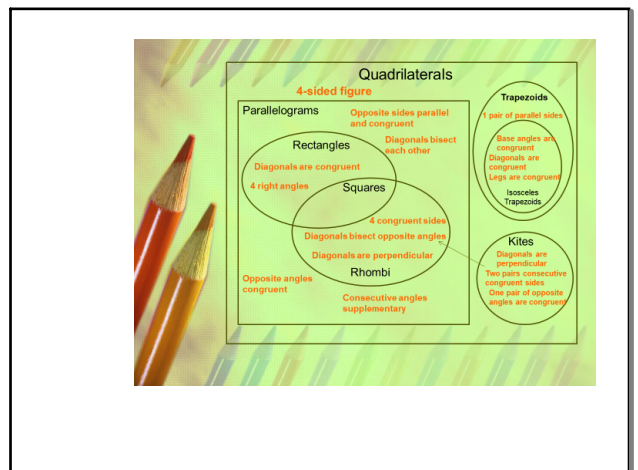
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Geometry _____ Name _____

Cut the following out and place on the G.O. where the items go.

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Complete the properties chart for each quadrilateral. Tell how many and which angles or sides fit each description. Tell the characteristics of the diagonals for each quadrilateral.

Figure	Congruent Angles	Congruent Sides	Parallel Sides	Diagonals
Parallelogram	Yes, opposite angles are congruent	Yes, opposite sides are congruent	Yes, 2 sets of parallel sides	Diagonals bisect
Rectangle	Yes, all 4	Yes, 2 sets	Yes, 2 sets	Diagonals bisect
Rhombus	Yes, 2 sets	Yes, all 4	Yes, 2 sets	Diagonals bisect
Square				
Trapezoid				
Isosceles Trapezoid	Yes, 2 sets	Yes, 1 set	Yes, 1 set	are congruent
Kite	Yes, 1 set	Yes, 2 sets	No	The diagonals are perpendicular

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September 18, 2018

List 4 quadrilaterals
 Draw pictures of 3 quadrilaterals you listed
 Write characteristics for 2 of your quadrilaterals

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Quadrilaterals – Flow Chart

Complete the flow chart with the name of the appropriate quadrilateral. Include a diagram to represent each quadrilateral.

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    graph TD
        Q[Quadrilateral ABCD] --> B1[If 2 pair opposite sides are parallel, ABCD is a (1)]
        Q --> B2[If 1 pair opposite sides are parallel, ABCD is a (2)]
        Q --> B3[If no opposite sides are parallel, ABCD is a (3)]
        B1 --> B1a[If diagonals are congruent, ABCD is a (4)]
        B1 --> B1b[If diagonals are perpendicular, ABCD is a (5)]
        B1 --> B1c[If diagonals are both congruent and perpendicular, ABCD is a (6)]
        B2 --> B2a[If diagonals are congruent, ABCD is a (6)]
        B3 --> B3a[If two pair consecutive sides are congruent, ABCD is a (7)]
    
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Quadrilaterals – Venn Diagram

Complete the Venn diagram with the name of the appropriate quadrilateral. Include a diagram(s) to represent each quadrilateral.

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Geometry _____ Name _____

Moth Warehouse

Quadrilateral

Word Bank: Trapezoid, Rhombus, Kite, Square, Rectangle, Quadrilateral, Isosceles Trapezoid, Parallelogram, parallel pairs sides

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Sep 14-8:18 AM

September 19, 2018, 3 days until Fall break.

Draw a circle and label the circle L

Draw a circle with a compass...

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1. [Copy Segment] Construct a segment \overline{CD} congruent to segment \overline{AB} .

2. [COPY ANGLE] Construct an angle with ray \overrightarrow{JK} and congruent to the angle $\angle DEF$.

3. [Perpendicular Bisector] Construct a perpendicular bisector to the segment \overline{AB} .

4. [Angle Bisector] Construct an angle bisector of the angle $\angle DEF$.

5. [Perpendicular to a Line Through a Point] Construct a perpendicular line to \overline{XY} through point C.

6. [Triangle Inscribed in a Circle] Construct a circle with radius \overline{XY} and an inscribed regular triangle.

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3. [Perpendicular Bisector] Construct a perpendicular bisector to the segment \overline{AB} .

4. [Angle Bisector] Construct an angle bisector of the angle $\angle DEF$.

5. [Perpendicular to a Line Through a Point] Construct a perpendicular line to \overline{XY} through point C.

6. [Triangle Inscribed in a Circle] Construct a circle with radius \overline{XY} and an inscribed regular triangle.

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3. [Perpendicular Bisector] Construct a perpendicular bisector to the segment \overline{AB} .

4. [Angle Bisector] Construct an angle bisector of the angle $\angle DEF$.

5. [Perpendicular to a Line Through a Point] Construct a perpendicular line to \overline{XY} through point C.

6. [Triangle Inscribed in a Circle] Construct a circle with radius \overline{XY} and an inscribed regular triangle.

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5. [Perpendicular to a Line Through a Point] Construct a perpendicular line to \overline{XY} through point C.

6. [Triangle Inscribed in a Circle] Construct a circle with radius \overline{XY} and an inscribed regular triangle.

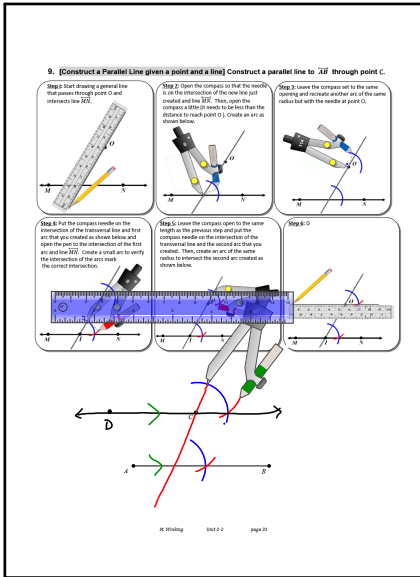
7. [Triangle Inscribed in a Circle] Construct a circle with radius \overline{XY} and an inscribed regular triangle.

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7. [Triangle Inscribed in a Circle] Construct a circle with radius \overline{XY} and an inscribed regular triangle.

8. [Triangle Inscribed in a Circle] Construct a circle with radius \overline{XY} and an inscribed regular triangle.

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Create a new construction on notebook paper

2	SF MM	2
3	AM AO	3
4	EG JG	4
5	KE CL	5
7	CM	7
9		9

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September 20, 2018, Thursday

8. [Square inscribed in a Circle] Construct a circle with radius \overline{AB} and an inscribed square.

Step 1: Start by placing the needle on the point that is to be the center of the circle and the pencil on the other endpoint of the radius. Create the entire circle with the compass.

Step 2: Line your straight edge up with the radius and extend the radius segment to create a diameter.

Step 3: Create a perpendicular bisector of the newly created diameter (see previous construction #3 if needed)

Step 4: Connect the each endpoint of the diameter with each endpoint of where the perpendicular bisector intersects the circle.

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<https://www.mathopenref.com/worksheettlist.html>

Find ____ from different sections you will complete.

Angles	Using a protractor to measure angles	printable worksheet	Triangles	Construct 30-60-90 triangles	printable worksheet
	Draw angles with a protractor	printable worksheet		Triangle given one side and adjacent angles (SAS)	printable worksheet
	Copy an angle	printable worksheet		Triangle given 2 angles and non-included side (AAS)	printable worksheet
	Bisect an angle	printable worksheet		Triangle given two sides and included angle (SAS)	printable worksheet
	Construct a 30 degree angle	printable worksheet		Triangle given three sides (SSS)	printable worksheet
	Construct a 45 degree angle	printable worksheet		Copy of a given triangle	printable worksheet
	Construct a 60 degree angle	printable worksheet		Equilateral triangle	printable worksheet
	Construct a 90 degree angle	printable worksheet		Isosceles triangle (given base and side length)	printable worksheet
	Construct a 100 degree angle	printable worksheet		Isosceles triangle (given base and apex angle)	printable worksheet
	Sum of n angles	printable worksheet		Midsegment of a triangle	printable worksheet
	Difference of two angles	printable worksheet		Median of a triangle	printable worksheet
	Supplementary angle	printable worksheet		Altitude of a triangle	printable worksheet
	Complementary angle	printable worksheet		Altitude of a triangle (outside case)	printable worksheet
Lines	Copy a line segment	printable worksheet		Right Triangles	
	Sum of n line segments	printable worksheet		Right triangle given one leg and hypotenuse (HL)	printable worksheet
	Difference of two line segments	printable worksheet		Right triangle given both legs (LL)	printable worksheet
	Perpendicular line bisector	printable worksheet		Right triangle given hypotenuse and one angle (HA)	printable worksheet
	Parallel through a point	printable worksheet		Right triangle given one leg and one angle (LA)	printable worksheet
	Parallel through a point (Rhombus method)	printable worksheet			
	Parallel through a point (Translated triangle method)	printable worksheet			
	Perpendicular from endpoint of a ray	printable worksheet			
	Perpendicular through a point	printable worksheet			
	Perpendicular from a point on the line	printable worksheet			
	Divide a line segment into N parts	printable worksheet			

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