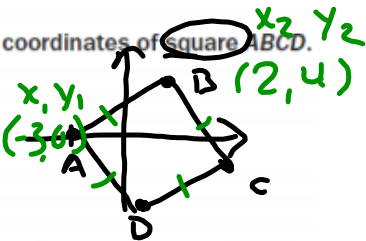


April 22, 2019, Monday

Item 7

Look at the coordinates of square ABCD.

- A(-3, 0)
- B(2, 4)
- C(6, -1)
- D(1, -5)



What is the perimeter of square ABCD?

- A. 20 units
- B. $4\sqrt{41}$ units**
- C. $2\sqrt{82}$ units
- D. 41 units

$$d_{AB} = \sqrt{(2 - (-3))^2 + (4 - 0)^2}$$

$$= \sqrt{41} \times 4$$

$$= 4\sqrt{41}$$

Item 8

Paul has a spinner with the colors red, green, blue, orange, and purple on it. He also has a six-sided number cube.

The probability of the arrow of the spinner stopping on green is $\frac{1}{5}$ and the probability of getting a number greater than 2 when tossing the number cube is $\frac{4}{6}$.

What is the probability of landing on green and tossing a number greater than 2?

- A. $\frac{2}{15}$
- B. $\frac{3}{10}$**
- C. $\frac{7}{10}$
- D. $\frac{13}{15}$

$$\frac{1}{5} \cdot \frac{4}{6} = \frac{4}{30} = \frac{2}{15}$$

7	MGSE9-12G.GPE.7	2	B	The correct answer is choice (B) $4\sqrt{41}$ units. Apply the distance formula to find the length of one side, which is $\sqrt{41}$. Since this is a square, multiply $\sqrt{41}$ by 4 to obtain the perimeter. Choice (A) is incorrect because the number of unit squares on a line segment were counted to estimate the length and then multiplied by 4. Choice (C) is incorrect because the length of the diagonal is multiplied by 2. Choice (D) is incorrect because it is the approximate area of the square.
8	MGSE9-12S.CP.2	2	A	The correct answer is choice (A). The student multiplied the probabilities of the two independent events. The student divided the probabilities in (B) and in (C) the complement of the probability from (B) was given. The probabilities were added in (D).

Circumference of a Circle

$C = \pi d$ or $C = 2\pi r$

$\pi \approx 3.14$

Arc Length of a Circle

Arc Length = $\frac{2\pi r\theta}{360}$

Area

Triangle $A = \frac{1}{2}bh$

Rectangle $A = bh$

Circle $A = \pi r^2$

Area of a Sector of a Circle

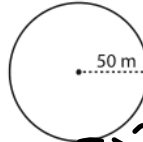
Area of Sector = $\frac{\pi r^2\theta}{360}$

radius

Circle - Area

Find the area of each circle. Round the answer to tenth decimal place. (use $\pi = 3.14$)

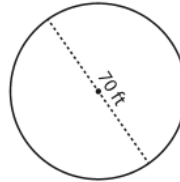
1)



$A = \pi 50^2$

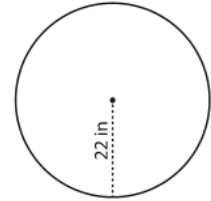
Area = 7850

2)



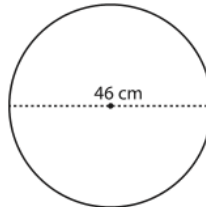
Area =

3)



Area =

4)



$d = 46$
 $r = \frac{d}{2} = \frac{46}{2}$
 $r = 23$

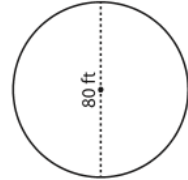
Area = 1661.9

5)



Area =

6)



Area =

7) If the radius is 39 ft, what will be the area of the circle?

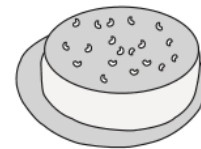
- a) 1193.99 ft² b) 122.46 ft c) 244.92 ft² d) 4775.94 ft²

8) What is the area of the circle with a diameter of 52 in?

- a) 163.28 in² b) 2122.64 in² c) 8490.56 in² d) 322.56 in

9) The diameter of the pudding is 94 mm. What is the maximum area available for toppings?

Area = _____



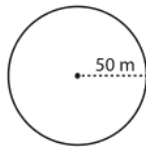
Name : _____

Score : _____

Answer Key

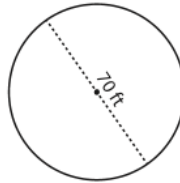
Find the area of each circle. Round the answer to tenth decimal place. (use $\pi = 3.14$)

1)



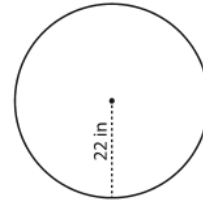
Area = **7850 m²**

2)



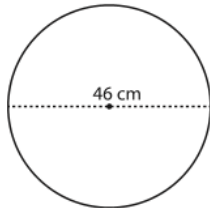
Area = **3846.5 ft²**

3)



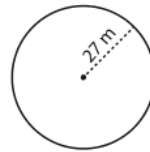
Area = **1519.8 in²**

4)



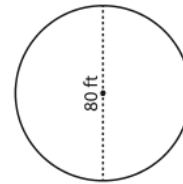
Area = **1661.1 cm²**

5)



Area = **2289.1 m²**

6)



Area = **5024 ft²**

7) If the radius is 39 ft, what will be the area of the circle?

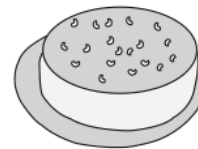
- a) 1193.99 ft² b) 122.46 ft c) 244.92 ft² **d) 4775.94 ft²**

8) What is the area of the circle with a diameter of 52 in?

- a) 163.28 in² **b) 2122.64 in²** c) 8490.56 in² d) 322.56 in

9) The diameter of the pudding is 94 mm. What is the maximum area available for toppings?

Area = **6936.3 mm²**



Circumference of a Circle

$C = \pi d$ or $C = 2\pi r$
 $\pi \approx 3.14$

Arc Length of a Circle

Arc Length = $\frac{2\pi r\theta}{360}$

Area

Triangle $A = \frac{1}{2}bh$

Rectangle $A = bh$

Circle $A = \pi r^2$

Area of a Sector of a Circle

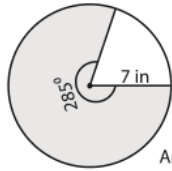
Area of Sector = $\frac{\pi r^2 \theta}{360}$

Name: _____

Score: _____

Area of a Sector

Example:

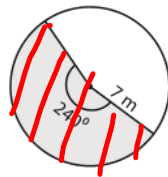


Area of a sector = $\frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ}$

A piece of the area.

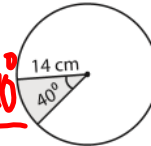
$= \frac{285^\circ \times 3.14 \times 7 \times 7}{360^\circ}$
 $= 121.81 \text{ in}^2$

Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

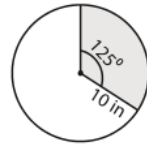


AoS = $\frac{3.14(7)^2 240}{360}$

Area = 102.57

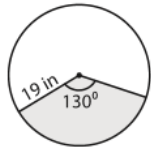


Area = _____



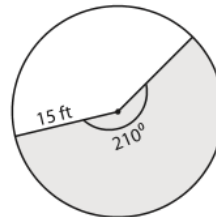
Area = _____

4)



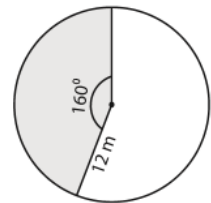
Area = _____

5)



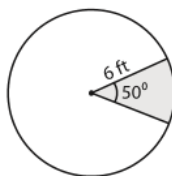
Area = _____

6)



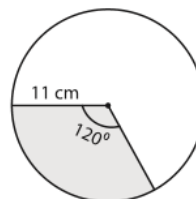
Area = _____

7)



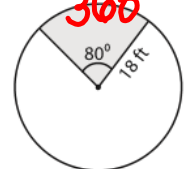
Area = _____

8)



Area = _____

AoS = $\frac{\pi(18)^2 80}{360}$



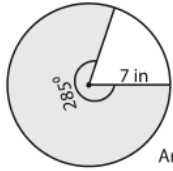
Area = 226.19

Name : _____

Score : _____

Answer Key

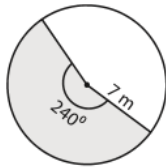
Example:



$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{285^\circ \times 3.14 \times 7 \times 7}{360^\circ} \\ &= \mathbf{121.81 \text{ in}^2} \end{aligned}$$

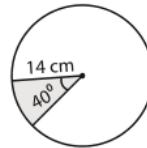
Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



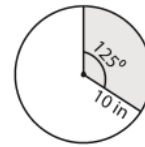
Area = **102.57 m²**

2)



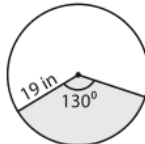
Area = **68.38 cm²**

3)



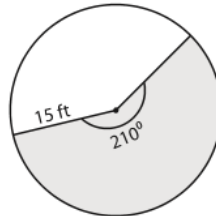
Area = **109.03 in²**

4)



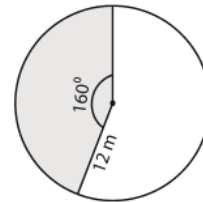
Area = **409.33 in²**

5)



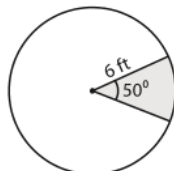
Area = **412.13 ft²**

6)



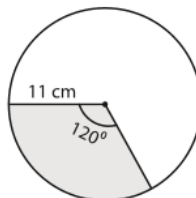
Area = **200.96 m²**

7)



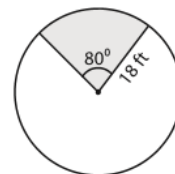
Area = **15.7 ft²**

8)



Area = **126.65 cm²**

9)



Area = **226.08 ft²**

Circumference of a Circle

$C = \pi d$ or $C = 2\pi r$

$\pi \approx 3.14$

Arc Length of a Circle

Arc Length = $\frac{2\pi r\theta}{360}$

Area

Triangle $A = \frac{1}{2}bh$

Rectangle $A = bh$

Circle $A = \pi r^2$

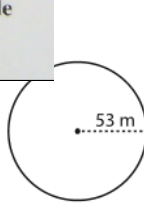
Area of a Sector of a Circle

Area of Sector = $\frac{\pi r^2\theta}{360}$

Score : _____

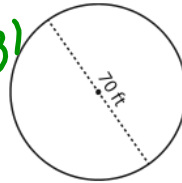
Circle - Circumference

Find the circumference of each circle. Round the answer to tenth decimal place. (use $\pi=3.14$)

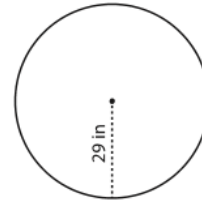


$C = 2\pi r$
 $C = 2\pi(53)$

Circumference = 332.8

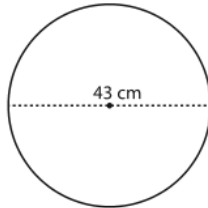


Circumference = _____



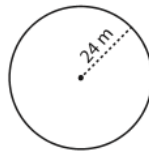
Circumference = _____

4)



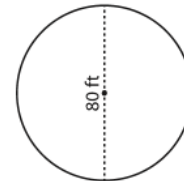
Circumference = _____

5)



Circumference = _____

6)



Circumference = _____

7) Calculate the circumference of a circle having a diameter of 66 cm.

$C = \pi(66)$

Circumference = 207.2

8) What is the circumference of a circle with a radius of 31 ft?

Circumference = _____

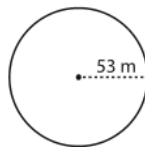
Name : _____

Score : _____

Answer Key

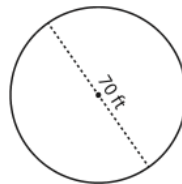
Find the circumference of each circle. Round the answer to tenth decimal place. (use $\pi=3.14$)

1)



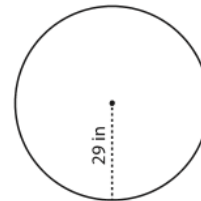
Circumference = 332.8 m

2)



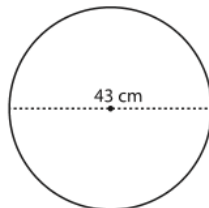
Circumference = 219.8 ft

3)



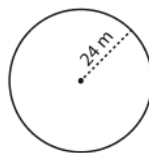
Circumference = 182.1 in

4)



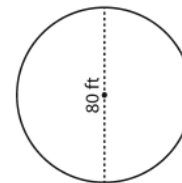
Circumference = 135 cm

5)



Circumference = 150.7 m

6)



Circumference = 251.2 ft

7) Calculate the circumference of a circle having a diameter of 66 cm.

Circumference = 207.2 cm

8) What is the circumference of a circle with a radius of 31 ft?

Circumference = 194.7 ft

Circumference of a Circle

$C = \pi d$ or $C = 2\pi r$

$\pi \approx 3.14$

Arc Length of a Circle

Arc Length = $\frac{2\pi r\theta}{360}$



Area

Triangle $A = \frac{1}{2}bh$

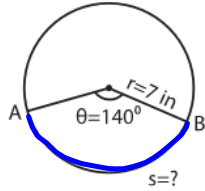
Rectangle $A = bh$

Circle $A = \pi r^2$

Area of a Sector of a Circle

Area of Sector = $\frac{\pi r^2 \theta}{360}$

Example:

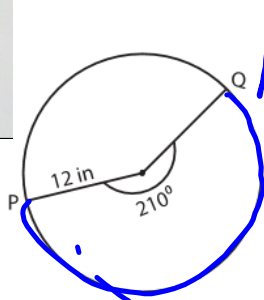


Arc length of a sector (s) = $\frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$

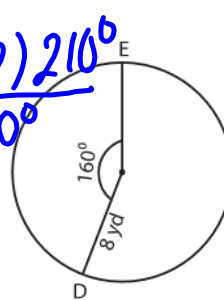
$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$

Length of the arc AB = **17.10 in**

Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)



2) $AL = \frac{2\pi(12)210^\circ}{360^\circ}$



Length of the arc PQ = 43.96

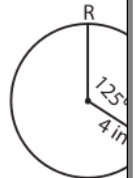
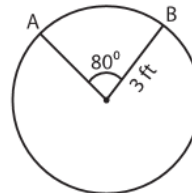
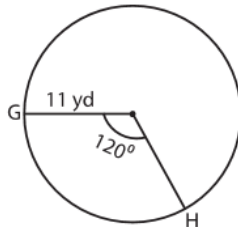
Length of the arc DE = _____

Length of the arc LM = _____

4)

5)

6)



Length of the arc GH = _____

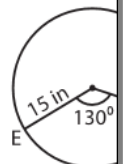
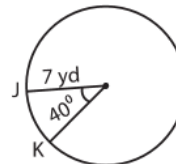
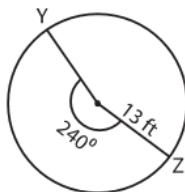
Length of the arc AB = _____

Length of the arc RS = _____

7)

8)

9)



me : _____

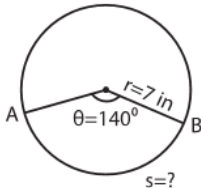
Answer Key

Score : _____

Length of Arc

Sheet 1

Example:



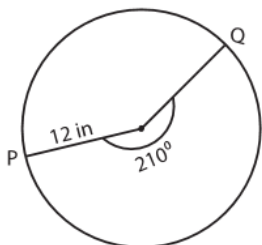
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc AB = **17.10 in**

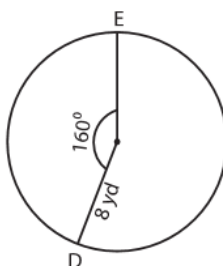
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



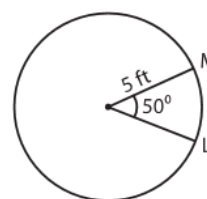
Length of the arc PQ = **43.96 in**

2)



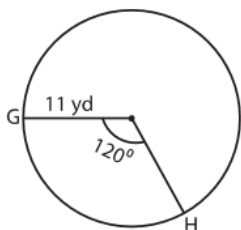
Length of the arc DE = **22.33 yd**

3)



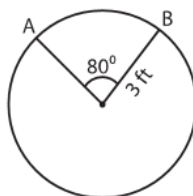
Length of the arc LM = **4.36 ft**

4)



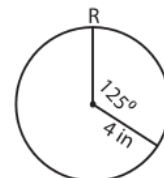
Length of the arc GH = **23.03 yd**

5)



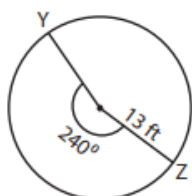
Length of the arc AB = **4.19 ft**

6)



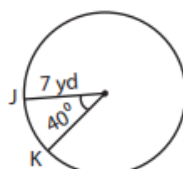
Length of the arc RS = **8.72 in**

7)



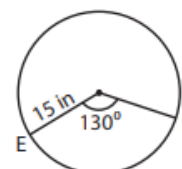
Length of the arc YZ = **54.43 ft**

8)



Length of the arc JK = **4.88 yd**

9)



Length of the arc EF = **34.02 in**

05/10/2019 — Geometry congruence & similarity

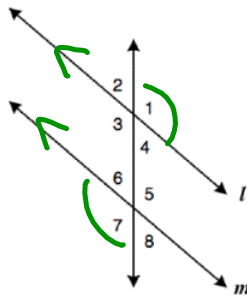
Activity	Progress	Options	Actions
Group Assignment Geometry EOC (GSE)		- Options - ▾	
Test - Small Test Test - Small Test Geometry EOC (GSE)	0/12	- Options - ▾	
Test - Medium Test Test - Medium Test Geometry EOC (GSE)	0/12	- Options - ▾	
Test - Medium Test Test - Medium Test Geometry EOC (GSE)	0/12	- Options - ▾	
Questions - Random Practice - 10 Questions Know Definitions	0/12	- Options - ▾	
Video Video Know Definitions	0/12	- Options - ▾	
Questions - Random Practice - 10 Questions Represent Transformations	0/12	- Options - ▾	
Vocab - Random Practice - 5 Vocab Represent Transformations	0/12	- Options - ▾	
Questions - Free Response Practice - Free Response Represent Transformations	0/12	- Options - ▾	
Questions - Random Practice - 10 Questions Rotations And Reflections	0/12	- Options - ▾	
Vocab - Random Practice - 5 Vocab Rotations And Reflections	0/12	- Options - ▾	

you should have at least 3 of these tasks complete by the end of class.

April 23, 2019, Tuesday

Question Number ~~347~~ - Geometry

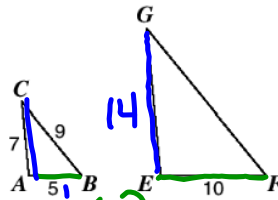
1)



Which will prove that line l is parallel to line m ?

- F $\angle 2 \cong \angle 7$
- G $\angle 3 \cong \angle 6$
- H $\angle 5 \cong \angle 2$
- J $\angle 7 \cong \angle 1$

2) Triangles ABC and EFG are similar with measurements as shown.



What is the ratio $\frac{AC}{EG}$?

- F $\frac{5}{7}$
- G $\frac{1}{2}$
- H $\frac{7}{10}$
- J $\frac{7}{9}$

Handwritten work: $\frac{7}{14} = \frac{1}{2}$. A blue arrow points from the fraction $\frac{1}{2}$ to option G.

Answers: J & G

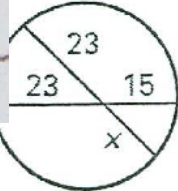
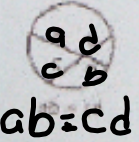
Geometry ~ Day 6, 3/29/2017

Unit 4 ~ Remaining Review

Name _____

Chord - Chord

value of x in the given diagrams.

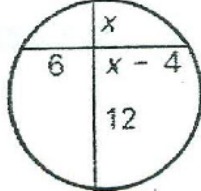


$$23(15) = 23(x)$$

$$\frac{345}{23} = \frac{23x}{23}$$

$$15 = x$$

2.



$$6(x-4) = x(12)$$

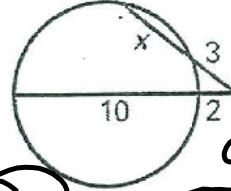
$$6x - 24 = 12x$$

$$-6x - 24 = -6x$$

$$\frac{-24}{-6} = \frac{6x}{-6}$$

$$-4 = x$$

3.



$$3(3+x) = 2(2+10)$$

$$9+3x = 4+20$$

$$9+3x = 24$$

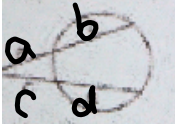
$$-9$$

$$3x = 15$$

$$\frac{3x}{3} = \frac{15}{3}$$

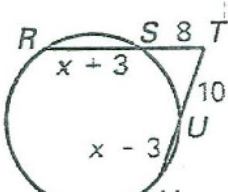
$$x = 5$$

Secant - Secant



$a(a+b) = c(c+d)$

4.



$$8(8+x+3) = 10(10+x-3)$$

$$8(11+x) = 10(7+x)$$

$$88+8x = 70+10x$$

$$-8x$$

$$\frac{88}{-8} = \frac{70+10x}{-8}$$

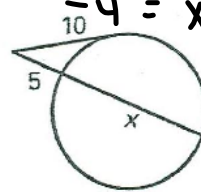
$$-11 = -8.75 + 1.25x$$

$$-2.25 = 1.25x$$

$$\frac{-2.25}{1.25} = \frac{1.25x}{1.25}$$

$$-1.8 = x$$

5.



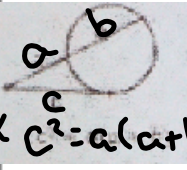
$$10^2 = 5(5+x)$$

$$100 = 25+5x$$

$$-25 -25$$

$$\frac{75}{5} = \frac{5x}{5}$$

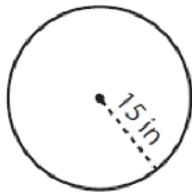
$$15 = x$$



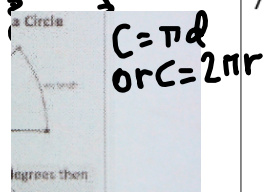
$c^2 = a(a+b)$

Find the circumference.

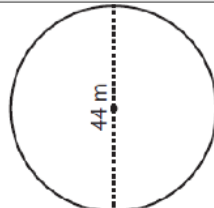
6.



$C = 2\pi(15)$
 $C = 30\pi$
 $C = 94.2$

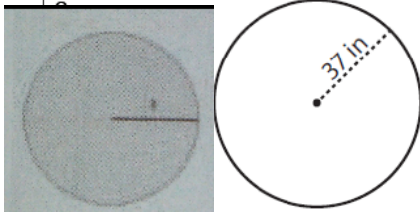


7.



$C = \pi 44$
 $C = 44\pi$
 $C = 138.16$

Find the area.

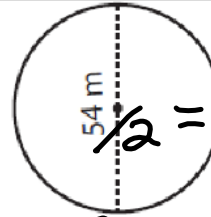


area of circle = πr^2

$$A = \pi(37)^2$$

$$A = 4298.66$$

9.



3.14
 π

$$\frac{54}{2} = r = 27$$

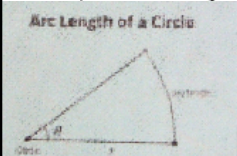
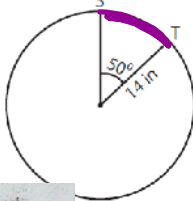
$$A = \pi r^2$$

$$A = \pi(27)^2$$

$$A = 2289.06$$

Find the arc Length.

10.



if θ is measured in degrees then

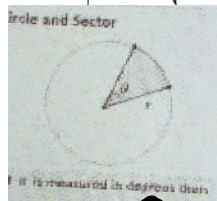
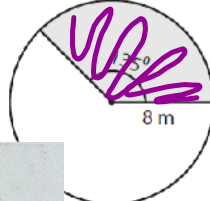
$$\text{arc length} = \frac{\theta}{360} \cdot 2\pi r$$

$$AL = \frac{50 \cdot 2\pi(14)}{360}$$

$$AL = 12.21$$

Find the area of the sector.

11.



if θ is measured in degrees then

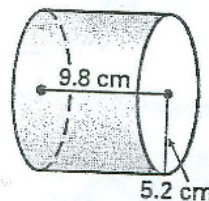
$$\text{area of sector} = \frac{\theta}{360} \cdot \pi r^2$$

$$AoS = \frac{35 \pi(8)^2}{360}$$

$$AoS = 75.39$$

Find the volume.

12.



Volume
Cylinder $V = \pi r^2 h$

$$V = \pi(5.2)^2 \cdot 9.8$$

$$V = 832.49$$

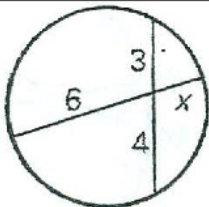
Geometry ~ Day 6, 3/29/2017

Unit 4 ~ Remaining Review

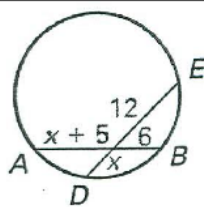
Name _____

Find the value of x in the given diagrams.

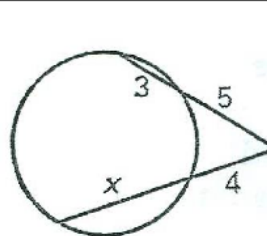
1.



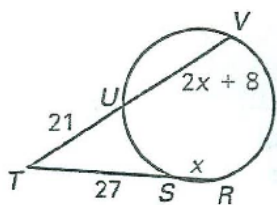
2.



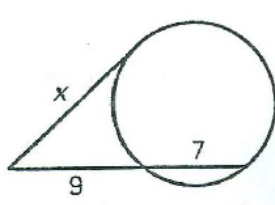
3.



4.

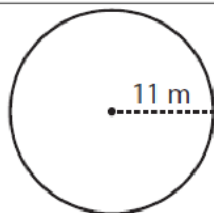


5.

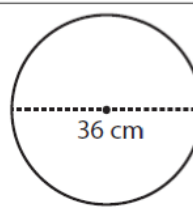


Find the circumference.

6.

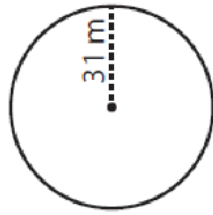


7.

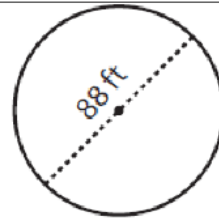


Find the area.

8.

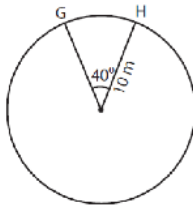


9.



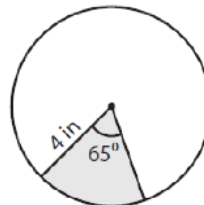
Find the arc Length.

10.



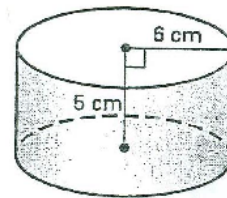
Find the area of the sector.

11.



Find the volume.

12.



Test - Domain Test	Test - Domain Test Equations and Measurement	0/12	- Options - ▼
Questions - Random	Practice - 10 Questions Support For Formulas	0/12	- Options - ▼
Questions - Random	Practice - 10 Questions Cavalieri's Principle	0/12	- Options - ▼
Performance Task	Practice - Performance Task	0/12	- Options - ▼
Performance Task	Practice - Performance Task	0/12	- Options - ▼
Performance Task	Practice - Performance Task	0/12	- Options - ▼
Vocab - Random	Practice - 5 Vocab Use Coordinates For Theorems	0/12	- Options - ▼
Questions - Random	Practice - 10 Questions Prove Slope Criteria	0/12	- Options - ▼
Video	Video Prove Slope Criteria	0/12	- Options - ▼
Video	Video Prove Slope Criteria	0/12	- Options - ▼
Crossword Puzzle	Practice - Crossword Find The Point	0/12	- Options - ▼
Game - Revealio	Game - Revealio Use Coordinates For Perimeter/area	0/12	- Options - ▼

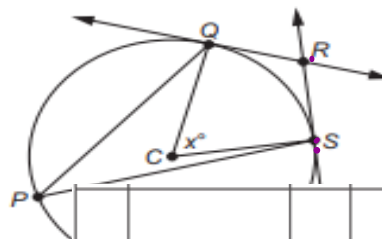
you should have
at least 3 of these
tasks complete by
the end of class.

April 24, 2019, Wednesday

Item 11

Multi-Select Technology-Enhanced: 2 points

The figure shows circle C with tangent lines \overline{QR} and \overline{SR} .



The measure of $\angle QCS$ is x° .

Select **THREE** statements that are true

- A. The measure of $\angle QPS$ is $(90 - x)^\circ$.
- B. The measure of $\angle QPS$ is $\frac{1}{2}x^\circ$.
- C. The measure of $\angle PSR$ is 90° .
- D. The measure of $\angle CQR$ is 90° .
- E. The measure of $\angle QRS$ is $(180 - x)^\circ$.
- F. The measure of $\angle QRS$ is $2x^\circ$.

11	MGSE9-12.G.C.2	3	B/D/E	The correct choices are (B), (D), and (E). Choice (B) is correct because an inscribed angle measure is half the measure of the intercepted arc. Choice (D) is correct because a line that is tangent to a circle is perpendicular to the radius drawn to the point of tangency. Choice (E) is correct because a circumscribed angle measure is equal to 180° minus the measure of the central angle that forms the intercepted arc. Choice (A) is incorrect because the measure of an inscribed angle is half the measure of the intercepted arc, rather than the difference between 90° and the central angle. Choice (C) is incorrect because the measure of the angle made by a tangent and a secant line segment cannot be 90° . Choice (F) is incorrect because the measure of a circumscribed angle is the difference between 180° and the central angle, rather than twice the central angle.
----	----------------	---	-------	--

Matching:

~~Volume~~

Cylinder

Pyramid

Cone

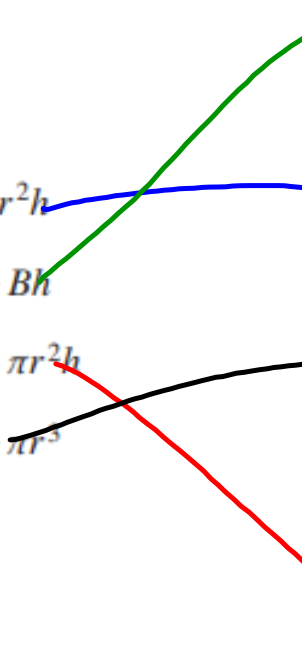
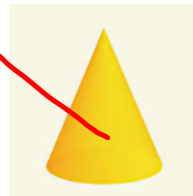
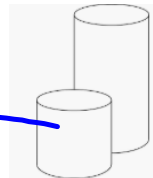
Sphere

$$V = \pi r^2 h$$

$$V = \frac{1}{3} Bh$$

$$V = \frac{1}{3} \pi r^2 h$$

$$V = \frac{4}{3} \pi r^3$$



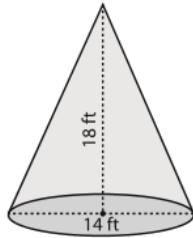
Name : _____

Score : _____

Volume - Mixed Shapes

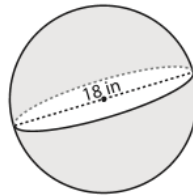
Find the exact volume of each shape.

1)



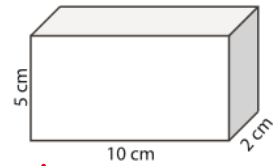
Volume = _____

2)



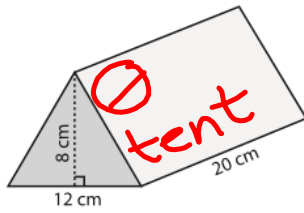
Volume = _____

3)



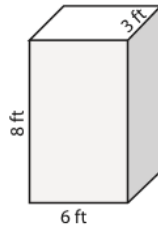
$l \cdot w \cdot h$
 $5 \cdot 10 \cdot 2$
 Volume = 100 cm^3

4)



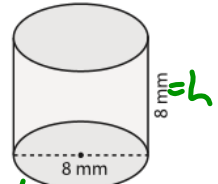
Volume = _____

5)



Volume = _____

6)



$V = \pi(4)^2(8)$
 Volume = 401.9 mm^3

Volume

Cylinder

Pyramid

Cone •

Sphere

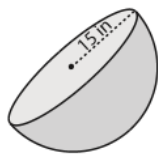
$V = \pi r^2 h$

$V = \frac{1}{3} Bh$

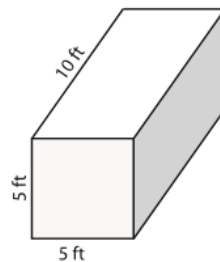
$V = \frac{1}{3} \pi r^2 h$

$V = \frac{4}{3} \pi r^3$

8)

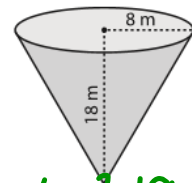


Volume = _____



Volume = _____

9)



$\frac{1}{3} \pi (8)^2 18$
 Volume = 1205.8 m^3

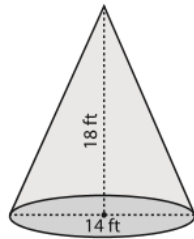
Name : _____

Score : _____

Answer Key

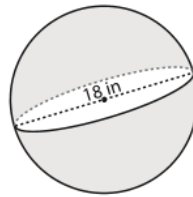
Find the exact volume of each shape.

1)



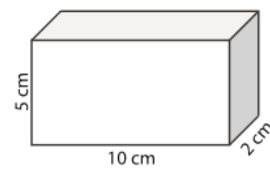
Volume = $294\pi \text{ ft}^3$

2)



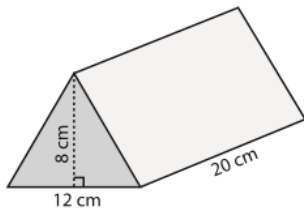
Volume = $972\pi \text{ in}^3$

3)



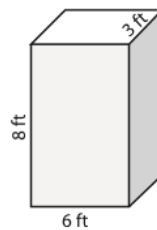
Volume = 100 cm^3

4)



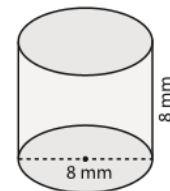
Volume = 960 cm^3

5)



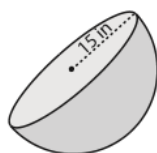
Volume = 144 ft^3

6)



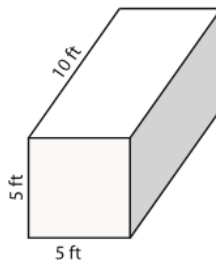
Volume = $128\pi \text{ mm}^3$

7)



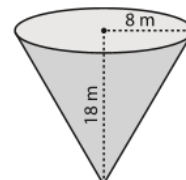
Volume = $2250\pi \text{ in}^3$

8)



Volume = 250 ft^3

9)



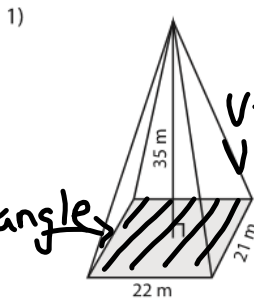
Volume = $384\pi \text{ m}^3$

0

Name: _____

Score: _____

B ⇒ "Big B"
Area of the Base **Volume of Pyramid**
Look at the Base, what formula would you use to solve the area!
 Find the volume of each pyramid. Round the answer to two decimal places.

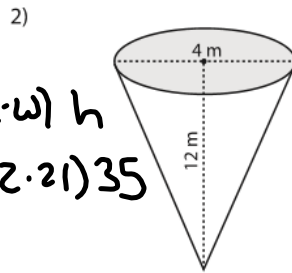


Rectangles

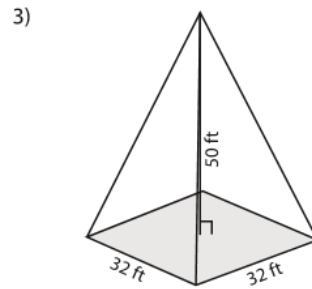
$$V = \frac{1}{3} (l \cdot w) h$$

$$V = \frac{1}{3} (22 \cdot 21) 35$$

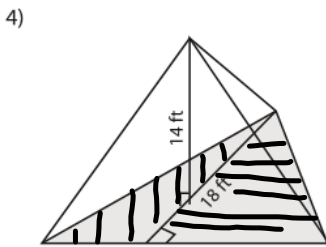
Volume = 5390 m³



Volume = _____



Volume = _____



$$V = \frac{1}{3} (2 \cdot \frac{1}{2} b \cdot h_p) h_p$$

$$V = \frac{1}{3} \pi r^2 h$$

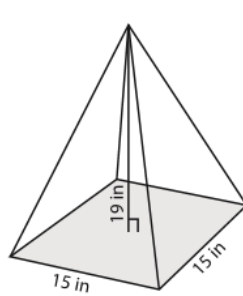
$$V = \frac{1}{3} Bh$$

$$V = \frac{1}{3} \pi r^2 h$$

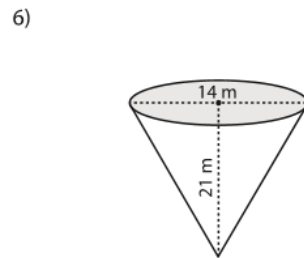
$$V = \frac{4}{3} \pi r^3$$

$$\frac{1}{3} (2 \cdot \frac{1}{2} \cdot 10.5 \cdot 18) 14$$

$$882 \text{ ft}^3$$

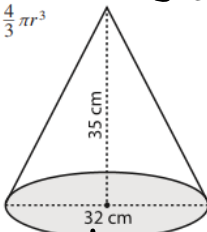


Volume = _____



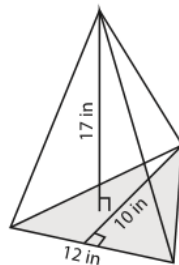
Volume = _____

- Volume
- Cylinder
- Pyramid
- Cone
- Sphere

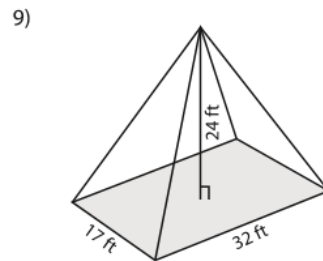


$$V = \frac{1}{3} \pi (16)^2 35$$

Volume = 9378.13



Volume = _____



Volume = _____

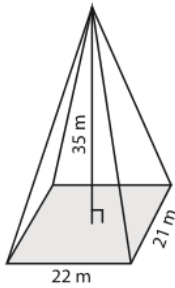
Name : _____

Score : _____

Answer Key

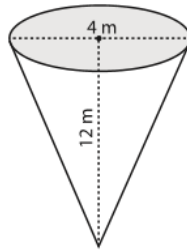
Find the volume of each pyramid. Round the answer to two decimal places.

1)



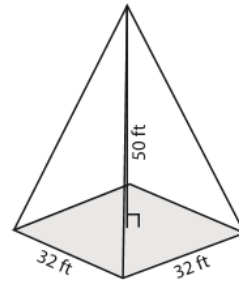
Volume = 5390 m³

2)



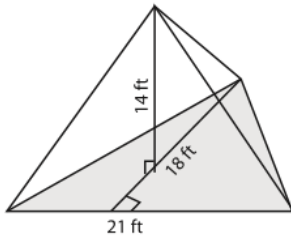
Volume = 50.24 m³

3)



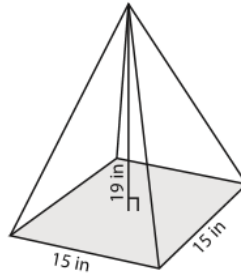
Volume = 17066.67 ft³

4)



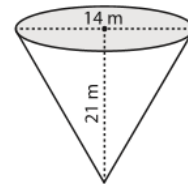
Volume = 882 ft³

5)



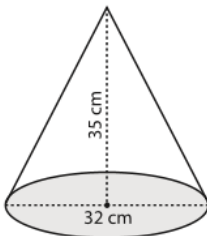
Volume = 1425 in³

6)



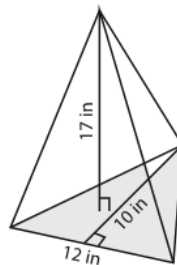
Volume = 1077.02 m³

7)



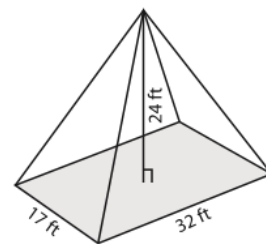
Volume = 9378.13 cm³

8)



Volume = 340 in³

9)



Volume = 4352 ft³

Geometry ~ U4 Day 7, 3/29/2017

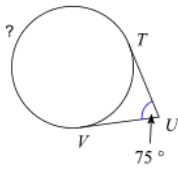
Name _____

© 2017 Kuta Software LLC. All rights reserved.

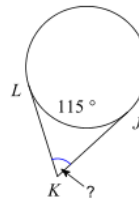
Unit 4 Test Review

Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

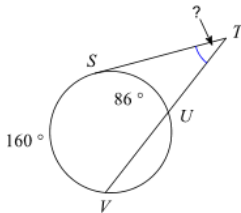
1)



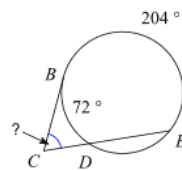
2)



3)

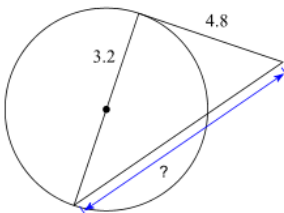


4)

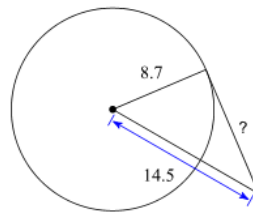


Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

5)

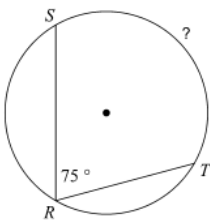


6)

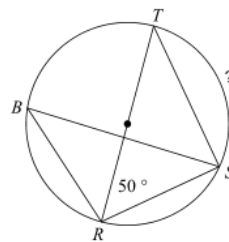


Find the measure of the arc or angle indicated.

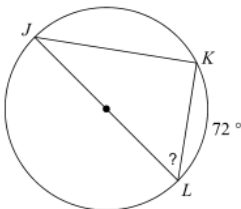
7)



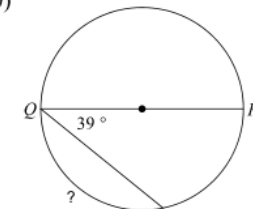
8)



9)



10)



© 2017 Kuta Software LLC. All rights reserved. Made with Infinite Geometry.

April 25, 2019, Thursday

Item 21

Constructed-Response

One bag of lawn fertilizer can cover approximately 5,000 square feet. Mike's lawn is about 500 square feet. When Mike applies fertilizer to his lawn, he applies it to $\frac{3}{4}$ of his lawn only.

Part A About how many complete times can Mike fertilize his lawn with one bag of fertilizer? Write your answer in the space provided.

Part B Mike fertilizes his lawn an average of 4 times per year. About how many full years will he be able to fertilize his lawn with one bag of fertilizer? Write your answer in the space provided.

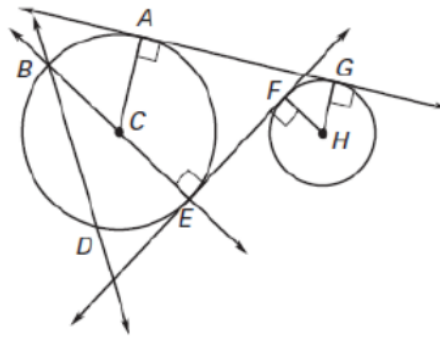
Part A _____
Part B _____

Points Awarded	
2	Pa AN Pa
1	Pa OR Pa
0	Re

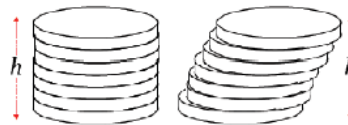
Part 3:

Name the term that best describes the notation.

1. F
2. \overleftrightarrow{FE}
3. \overline{HG}
4. \overline{DB}
5. C
6. \overline{BE}
7. \overleftrightarrow{DB}
8. \overleftrightarrow{AC}

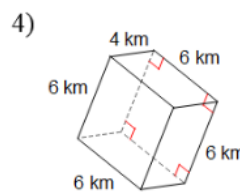
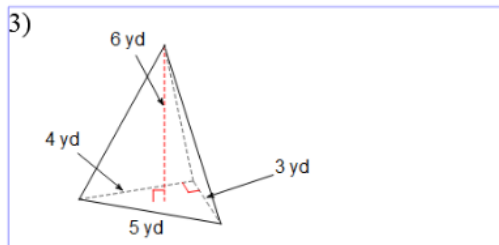
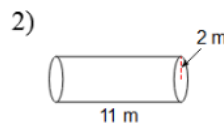
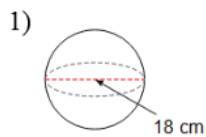


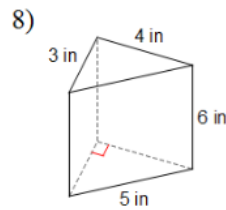
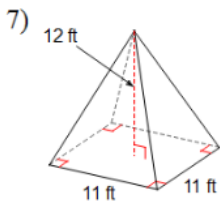
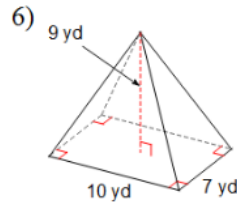
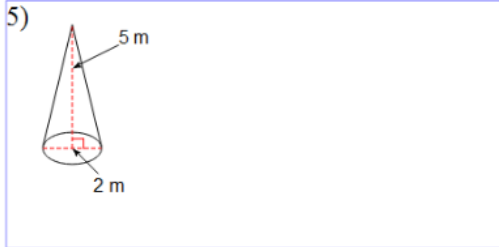
Looking at the stack of quarters below, what do we know about their volumes? Explain why.



Part 4:

Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

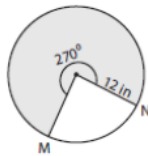




Part 5:

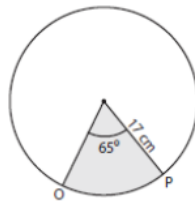
Find the length of the arc and area of the shaded region. Round the answer to two decimal places. (use $\pi = 3.14$)

1)



Length of the arc MN = _____
Area of a sector = _____

2)



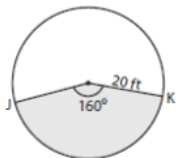
Length of the arc OP = _____
Area of a sector = _____

3)



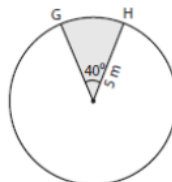
Length of the arc EF = _____
Area of a sector = _____

4)



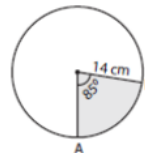
Length of the arc JK = _____
Area of a sector = _____

5)



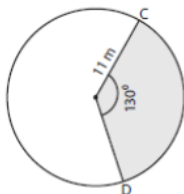
Length of the arc GH = _____
Area of a sector = _____

6)



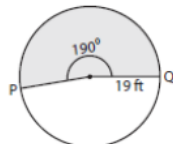
Length of the arc AB = _____
Area of a sector = _____

7)



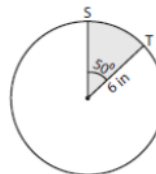
Length of the arc CD = _____
Area of a sector = _____

8)



Length of the arc PQ = _____
Area of a sector = _____

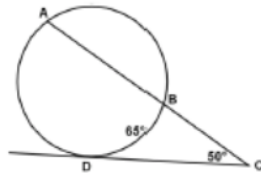
9)



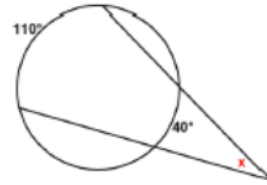
Length of the arc ST = _____
Area of a sector = _____

Part 6:

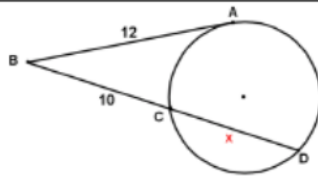
10. Find $m\widehat{AB}$



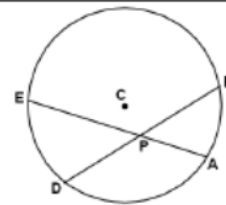
11. Find the value of x



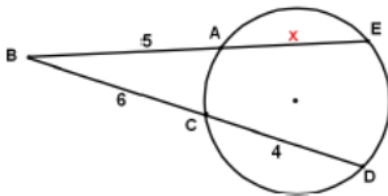
12. Solve for x



13. $DB = 15$, $PB = 8$, $EP = 9$.
Find PA .



14. Find PA



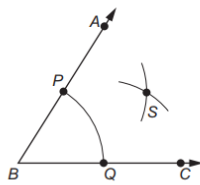
Test - Medium Test	Test - Medium Test Geometry EOC (GSE)	0/12	- Options - ▼
Test - Medium Test	Test - Medium Test Geometry EOC (GSE)	0/12	- Options - ▼
Questions - Random	Practice - 10 Questions Know Definitions	2/12	- Options - ▼
Video	Video Know Definitions	4/12	- Options - ▼
Questions - Free Response	Practice - 10 Questions Represent Transformations	2/12	- Options - ▼
Vocab - Random	Practice - 5 Vocab Represent Transformations	2/12	- Options - ▼
Questions - Free Response	Practice - Free Response Represent Transformations	2/12	- Options - ▼
Questions - Random	Practice - 10 Questions Rotations And Reflections	0/12	- Options - ▼
Vocab - Random	Practice - 5 Vocab Rotations And Reflections	2/12	- Options - ▼
Crossword Puzzle	Practice - Crossword Rotations And Reflections	0/12	- Options - ▼

you should have at least 3 of these tasks complete by the end of class.

April 26, 2019, Friday

Example Item 3

A student used a compass and a straightedge to bisect $\angle ABC$ in this figure.



Which statement BEST describes point S?

- A. Point S is located such that $SC = PQ$.
- B. Point S is located such that $SA = PQ$.
- C. Point S is located such that $PS = BQ$.
- D. Point S is located such that $QS = PS$.

Rectangle $ABCD$ has points $A(2, 2)$, $B(6, 2)$, $C(6, 8)$, and $D(2, 8)$. The rectangle maps to $A'B'C'D'$ such that $(x, y) \rightarrow (y, -x)$.

Which statement is true about the transformation of $ABCD$ to $A'B'C'D'$?

- A. $ABCD$ maps to $A'B'C'D'$ by a reflection over the x -axis, and B' is located at $(2, -6)$.
- B. $ABCD$ maps to $A'B'C'D'$ by a reflection over the x -axis, and B' is located at $(6, -2)$.
- C. $ABCD$ maps to $A'B'C'D'$ by a 90° clockwise rotation about the origin, and B' is located at $(2, -6)$.
- D. $ABCD$ maps to $A'B'C'D'$ by a 90° clockwise rotation about the origin, and B' is located at $(6, -2)$.



...test