

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√41 units
C. 2√82 units
D. 41 units

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. $\frac{13}{15}$

Circle - Area

Circumference of a Circle
 $C = \pi d$ or $C = 2\pi r$
 $\pi \approx 3.14$

Arc Length of a Circle
Arc Length = $\frac{\theta}{360} \times 2\pi r$

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 = $\frac{\theta}{360} \times \pi r^2$

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

1) Area = **7850**

2) Area = _____

3) Area = _____

4) Area = **661.9**

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 ft² 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 = _____

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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 in²**

3) Area = **1519.8 in²**

4) Area = **1661.1 cm²**

5) Area = **2289.1 m²**

6) Area = **9024 ft²**

7) If the radius is 39 ft, what will be the area of the circle?
a) 1193.99 ft² b) 122.46 ft² 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**

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Name: _____ Score: _____

Area of a Sector

Example: Area of a sector = $\frac{\text{central angle}}{360} \times \pi \times \text{radius}^2 = \frac{28 \times 3.14 \times 7 \times 7}{360} = 121.81 \text{ in}^2$

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

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

1) Area = **162.57**

2) Area = _____

3) Area = _____

4) Area = _____

5) Area = _____

6) Area = _____

7) Area = _____

8) Area = _____

9) Area = **226.19**

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Name: _____ Score: _____

Answer Key

Example: Area of a sector = $\frac{\text{central angle}}{360} \times \pi \times \text{radius}^2 = \frac{28 \times 3.14 \times 7 \times 7}{360} = 121.81 \text{ in}^2$

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 = **199.03 in²**

4) Area = **409.32 in²**

5) Area = **412.13 ft²**

6) Area = **209.06 m²**

7) Area = **15.7 ft²**

8) Area = **126.65 cm²**

9) Area = **226.08 ft²**

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Name: _____ Score: _____

Circle - Circumference

Circumference of a Circle
 $C = \pi d$ or $C = 2\pi r$
 $\pi \approx 3.14$

Arc Length of a Circle
Arc Length = $\frac{\theta}{360} \times 2\pi r$

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 = $\frac{\theta}{360} \times \pi r^2$

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

1) Circumference = **332.8**

2) Circumference = _____

3) Circumference = _____

4) Circumference = _____

5) Circumference = _____

6) Circumference = _____

7) Calculate the circumference of a circle having a diameter of 66 cm.
Circumference = **207.2**


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


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Name: _____ Score: _____


Answer Key


Find the circumference of each circle. Round the answer to tenth decimal place. (Use $m=3.14$)


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

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Circumference of a Circle
 $C = \pi d$ or $C = 2\pi r$
 $\pi = 3.14$


Arc Length of a Circle
 $\text{Arc Length} = \frac{\theta}{360} \times 2\pi r$

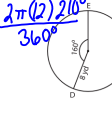
Area of a Sector
 $A = \frac{\theta}{360} \times \pi r^2$

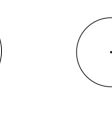
Triangle $A = \frac{1}{2}bh$
Rectangle $A = bh$
Circle $A = \pi r^2$

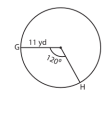
Example: Arc length of a sector (s) = $\frac{\text{Central angle}}{360} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180}$
 $\frac{140^\circ \times 3.14 \times 7}{180}$
Length of the arc AB = 17.10 in

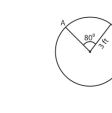
Find the arc length of each sector. Round the answer to two decimal places. (use $m=3.14$)


1)  Length of the arc PQ = 43.916

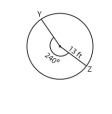
2)  Length of the arc DE = _____

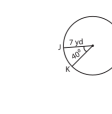
3)  Length of the arc LM = _____


4)  Length of the arc GH = _____

5)  Length of the arc AB = _____

6)  Length of the arc RS = _____

7)  Length of the arc YZ = _____

8)  Length of the arc JK = _____

9)  Length of the arc EF = _____

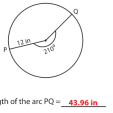
Name: _____ Score: _____

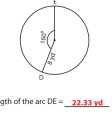
Answer Key

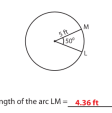
Length of Arc

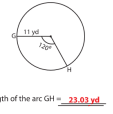
Example: Arc length of a sector (s) = $\frac{\text{Central angle}}{360} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180}$
 $\frac{140^\circ \times 3.14 \times 7}{180}$
Length of the arc AB = 17.10 in

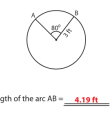
Find the arc length of each sector. Round the answer to two decimal places. (use $m=3.14$)

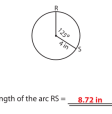
1)  Length of the arc PQ = 43.96 in

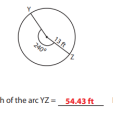
2)  Length of the arc DE = 22.33 yd

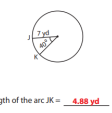
3)  Length of the arc LM = 4.36 ft

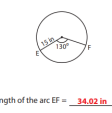
4)  Length of the arc GH = 23.03 yd

5)  Length of the arc AB = 4.19 ft

6)  Length of the arc RS = 8.72 in

7)  Length of the arc YZ = 5.43 ft

8)  Length of the arc JK = 4.88 yd

9)  Length of the arc EF = 34.02 in

05/10/2019

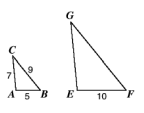
Geometry congruence & similarity	Group Assignment Geometry EOC (GSE)	- Options -	
Test - Small Test	Test - Small Test Geometry EOC (GSE)	0/12	- Options -
Test - Medium Test	Test - Medium Test Geometry EOC (GSE)	0/12	- Options -
Test - Medium Test	Test - Medium Test Geometry EOC (GSE)	0/12	- Options -
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 3 of 5 - Geometry

Triangles ABC and EFG are similar with measurements as shown.



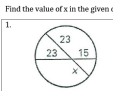
What is the ratio $\frac{AC}{EG}$?

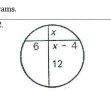
Which will prove that line l is parallel to line m ?

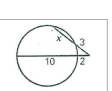
A $\angle 2 \cong \angle 7$
 B $\angle 3 \cong \angle 6$
 C $\angle 5 \cong \angle 2$
 D $\angle 7 \cong \angle 1$

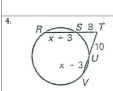
Geometry - Day 6, 3/29/2017 Unit 4 - Remaining Review Name: _____

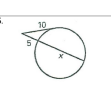
Find the value of x in the given diagrams.

1. 


2. 

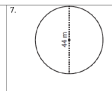
3. 

4. 



5. 

Find the circumference.




6. 

7. 

Find the area.




8.  9. 



Find the arc Length. Find the area of the sector. Find the volume.

10.  11.  12. 



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. Find the area of the sector. Find the volume.

10.  11.  12. 




Name: _____ Score: _____

Volume - Mixed Shapes




Find the exact volume of each shape.

1)  2)  3) 

Volume = _____ Volume = _____ Volume = _____

4)  5)  6) 

Volume = _____ Volume = _____ Volume = _____

7)  8)  9) 




Volume = _____ Volume = _____ Volume = _____

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


Name: _____ Score: _____

Answer Key




Find the exact volume of each shape.

1)  2)  3) 

Volume = **294π ft³** Volume = **972π in³** Volume = **100 cm³**

4)  5)  6) 

Volume = **960 cm³** Volume = **144 ft³** Volume = **128π mm³**

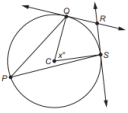
7)  8)  9) 

Volume = **2250π in³** Volume = **250 ft³** Volume = **384π m³**

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April 24, 2019, Wednesday

Item 11
Multi-Select Technology-Enhanced: 2 points
The figure shows circle C with tangent lines QR and SR.



The measure of $\angle QCS$ is x° .

Select THREE statements that are true about the figure.

A. The measure of $\angle QPS$ is $(90 - x)^\circ$.
 B. The measure of $\angle QPS$ is $\frac{x}{2}^\circ$.
 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 MISSE9-12.E.C

Name: _____ Score: _____

Volume of Pyramid

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

1) Volume = _____

2) Volume = _____

3) Volume = _____

4) Volume = _____

5) Volume = _____

6) Volume = _____

7) Volume = _____

8) Volume = _____

9) Volume = _____

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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 m³**

6) Volume = **1077.02 m³**

7) Volume = **9378.13 cm³**

8) Volume = **340 in³**

9) Volume = **4352 ft³**

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Geometry - 114 Day 7, 3/29/2017 Name: _____

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) _____

Printable Math Worksheets @ www.mathworksheets4kids.com

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	Part
2	Part A Part B
1	Part A Part B
0	Part A Part B

Part 3:

Name the term that best describes the notation.

- \overline{FE}
- \overleftrightarrow{FE}
- \overline{FE}
- \overleftrightarrow{FE}
- C
- \overleftrightarrow{FE}
- \overline{FE}
- \overleftrightarrow{FE}

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.

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____

7) _____

8) _____

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: _____ Area of a sector: _____

2) Length of the arc: _____ Area of a sector: _____

3) Length of the arc: _____ Area of a sector: _____

4) Length of the arc: _____ Area of a sector: _____

5) Length of the arc: _____ Area of a sector: _____






6) Length of the arc: _____ Area of a sector: _____

7) Length of the arc: _____ Area of a sector: _____

8) Length of the arc: _____ Area of a sector: _____

9) Length of the arc: _____ Area of a sector: _____


Part 6:

<p>10. Find $m\angle B$</p> 	<p>11. Find the value of x</p> 
<p>12. Solve for x</p> 	<p>13. $DB = 15$, $FB = 8$, $EP = 5$. Find PA.</p> 
<p>14. Find PA</p> 	

April 26, 2019, Friday

Example Item 3

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



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 $A'B'C'D'$?

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

Which statement **BEST** describes point S ?

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

...test