

October 23, 2018, Tuesday
 Draw a circle and a secant line.
 Draw a circle and a tangent line.

Oct 17-2:06 PM

Geometry Name: _____ ID: 1
 Central Angles
 Name the arc made by the given angle.
 1) $\angle AOC$ → Major arc \widehat{AC}
 2) Major arc for $\angle QGH$ → \widehat{GH}
 Name the central angle of the given arc.
 3) \widehat{AC} → $\angle AOC$ or $\angle COA$
 4) \widehat{GH} → $\angle G$
 Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
 5) $\angle P = 160^\circ$
 6) $\angle P = 90^\circ$
 7) $m\angle SRT = 70^\circ$ (diameter line)
 8) $m\angle FHE = 65^\circ$

Oct 23-7:56 AM

Review!

Central angle: x°
 Inscribed angle: $\frac{1}{2}x^\circ$

$A + C = 180$
 $B + D = 180$

Oct 23-11:01 AM

Geometry Name: _____ ID: 1
 Central Angles
 Name the arc made by the given angle.
 1) $\angle MQE$ → \widehat{ME}
 2) Major arc for $\angle GQH$ → \widehat{GH}
 Name the central angle of the given arc.
 3) \widehat{AC} → $\angle AOC$
 4) \widehat{GH} → $\angle G$
 Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.
 5) 160°
 6) 90°
 7) $m\angle SRT = 70^\circ$
 8) $m\angle FHE = 65^\circ$

Oct 23-7:56 AM

Copy p 670 - inscribed Quadrilateral Theorem

Supplementary = 180°

What does this theorem mean related to this picture?

$A + C = 180$
 $B + D = 180$

Oct 23-7:57 AM

Geometry Name: _____ ID: 1
 Inscribed in a Circle
 Find the measure of the arc or angle indicated.
 1) Inscribed \angle → $\frac{90^\circ}{2} = 45^\circ$
 2) Inscribed \angle → $\frac{194^\circ}{2} = 97^\circ$
 3) Inscribed \angle → $\frac{99^\circ}{2} = 49.5^\circ$
 4) Inscribed \angle → $\frac{198^\circ}{2} = 99^\circ$
 5) Inscribed \angle → $\frac{64^\circ}{2} = 32^\circ$
 6) Inscribed \angle → $\frac{108^\circ}{2} = 54^\circ$

Oct 23-8:00 AM

Geometry Name _____ ID: 1
 Circles, Secant & Tangents Date _____ Period _____
 Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

1) $\frac{360}{2} = 180$
 $180 - 100 = 80$
 $\frac{80}{2} = 40$
 Inscribed \angle
 $\frac{80}{2} = 40$

2) $\frac{360}{2} = 180$
 $180 - 110 = 70$
 $\frac{70}{2} = 35$
 $180 - 35 = 145$
 $\frac{145}{2} = 72.5$

3) $\frac{360}{2} = 180$
 $180 - 119 = 61$
 $\frac{61}{2} = 30.5$
 $180 - 30.5 = 149.5$
 $\frac{149.5}{2} = 74.75$

4) $\frac{360}{2} = 180$
 $180 - 195 = -15$
 $\frac{-15}{2} = -7.5$
 $180 - 7.5 = 172.5$
 $\frac{172.5}{2} = 86.25$

Oct 23-11:56 AM

7) $\frac{360}{2} = 180$
 $180 - 111 = 69$
 $\frac{69}{2} = 34.5$
 $180 - 34.5 = 145.5$
 $\frac{145.5}{2} = 72.75$

8) $\frac{360}{2} = 180$
 $180 - 115 = 65$
 $\frac{65}{2} = 32.5$
 $180 - 32.5 = 147.5$
 $\frac{147.5}{2} = 73.75$

9) $\frac{360}{2} = 180$
 $180 - 118 = 62$
 $\frac{62}{2} = 31$
 $180 - 31 = 149$
 $\frac{149}{2} = 74.5$

10) $\frac{360}{2} = 180$
 $180 - 120 = 60$
 $\frac{60}{2} = 30$
 $180 - 30 = 150$
 $\frac{150}{2} = 75$

11) $\frac{360}{2} = 180$
 $180 - 140 = 40$
 $\frac{40}{2} = 20$
 $180 - 20 = 160$
 $\frac{160}{2} = 80$

12) $\frac{360}{2} = 180$
 $180 - 111 = 69$
 $\frac{69}{2} = 34.5$
 $180 - 34.5 = 145.5$
 $\frac{145.5}{2} = 72.75$

Oct 23-11:56 AM

Geometry Name _____ ID: 1
 Circles, Secant & Tangents Date _____ Period _____
 Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

1) $\frac{360}{2} = 180$
 $180 - 100 = 80$
 $\frac{80}{2} = 40$

2) $\frac{360}{2} = 180$
 $180 - 111 = 69$
 $\frac{69}{2} = 34.5$
 $180 - 34.5 = 145.5$
 $\frac{145.5}{2} = 72.75$

3) $\frac{360}{2} = 180$
 $180 - 102 = 78$
 $\frac{78}{2} = 39$
 $180 - 39 = 141$
 $\frac{141}{2} = 70.5$

4) $\frac{360}{2} = 180$
 $180 - 117 = 63$
 $\frac{63}{2} = 31.5$
 $180 - 31.5 = 148.5$
 $\frac{148.5}{2} = 74.25$

5) $\frac{360}{2} = 180$
 $180 - 116 = 64$
 $\frac{64}{2} = 32$
 $180 - 32 = 148$
 $\frac{148}{2} = 74$

6) $\frac{360}{2} = 180$
 $180 - 111 = 69$
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 $180 - 34.5 = 145.5$
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Oct 23-11:57 AM

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 $180 - 120 = 60$
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 $180 - 30 = 150$
 $\frac{150}{2} = 75$

11) $\frac{360}{2} = 180$
 $180 - 140 = 40$
 $\frac{40}{2} = 20$
 $180 - 20 = 160$
 $\frac{160}{2} = 80$

12) $\frac{360}{2} = 180$
 $180 - 111 = 69$
 $\frac{69}{2} = 34.5$
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Oct 23-11:57 AM

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters. Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

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 $180 - 32 = 148$
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 $\frac{145.5}{2} = 72.75$

Oct 17-3:23 PM

Unit 4 Study guide for Quiz 1 - are you ready for secants and tangents?

Oct 17-3:25 PM

October 26, 2018, Friday



Quiz



Oct 24-12:28 PM



Geometry Name _____ ID: 1



Circumference of a circle...what is 'part' of a circumference called?

Find the circumference of each circle. $C = 2\pi r$. Round your answer to the nearest tenth.

1)  2) 

3)  4) 

5)  6) 

7)  8) 

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Oct 17-3:26 PM


What is an arc length & how it arc length related to circumference of a circle?

Oct 17-3:27 PM


Geometry Name _____ ID: 1

Circle circumference to arc length Date _____ Period _____



Find the diameter of each circle. Round your answer to the nearest tenth.

1) 

Find the radius of each circle. Round your answer to the nearest tenth.

2) 



Find the circumference of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.



3)  4) 



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Oct 17-3:29 PM

Find the length of each arc. Round your answers to the nearest tenth. Remember arc length is a 'piece' of the circumference.

5)  6) 

7)  8) 

9)  10) 

11)  12) 

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Oct 17-3:34 PM