
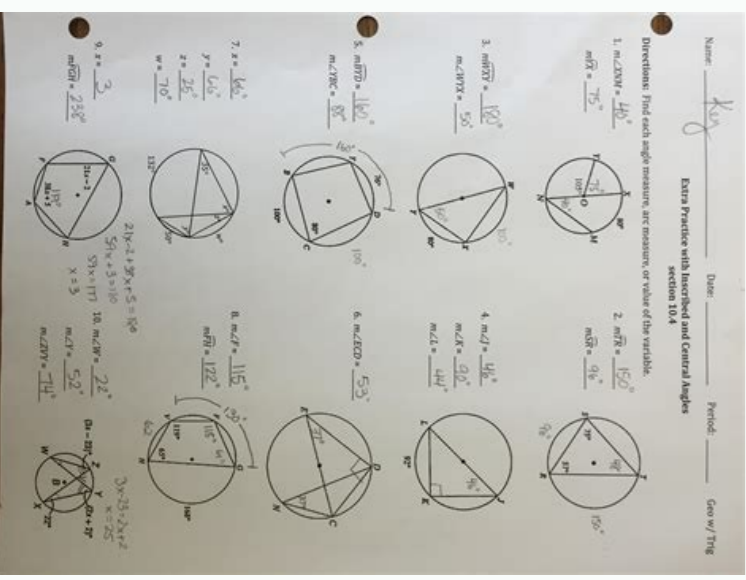


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**SECTORS: AREA**

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Q1 The area is 15 cm<sup>2</sup>. Find  $x$ .

Q2 The area is 20 cm<sup>2</sup>. Find  $r$ .

Q3 Find the shaded area.

**Timester Challenge**

Angles in Triangles

<p>Calculate the size of angle <math>x</math>.</p> <p><b>Bronze</b> ★</p>	<p>Calculate the size of angle <math>x</math>.</p> <p><b>Silver</b> ★</p>	<p>Calculate the size of angles <math>x</math> and <math>y</math>.</p>
<p>Calculate the size of angle <math>x</math>.</p> <p><b>Bronze</b> ★</p>	<p>Calculate the size of angle <math>x</math>.</p> <p><b>Silver</b> ★</p>	<p><b>Gold</b> ★</p>

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**Timester Challenge**

Volume of a Prism

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So I learned (in the most difficult way) that by keeping the above mentioned list in mind, observing where the angles go in the full circle forms, it is always possible to keep things in order. To find the sector area, I need the measure of the central angle, which they didn't give me. They gave me the radius and the central angle, so I can just connect directly to the formulas, and simplify to get my answers. Since this value means "area", which is a square dime, I'll want to remember to put "square" in the units that gave me to the radius. The area and circumference are for the entire circle, a complete revolution of the ray line. I did it to highlight how the angle for the entire circle (being 2π) fits into the formulas for the entire circumference. (And if you are given, or ask, the diameter, remember that the radius is half the diameter, and the diameter is twice the radius) They asked me for the meter. So: I can replace the second line above by the first line above (after some rearrangement), and see if the result helps me in any way: Ha! I found the value for lightning! I don't have the value for the central angle, but they didn't ask for it, and it turns out I didn't need it anyway. Often, if the question does not indicate a unit, or just say "units", then you can probably get away without putting "units" in your answer. I was asked to meter, which is twice the radius, so my answer (including the units) is: URL. Then the sector area is: And this value is the number of my answer. Angular word problems, Linear Velocity As you may recall of geometry, the area A of a circle with a radius of length r is given by: The circumference C (i.e. the length around the outside) of that same circle is given by: These are the factors that give us the area and the length of the arc (i.e., or odd or curved line) for the whole circle. There is no problem in not knowing, right at the start, how the end will come. However, this often leads to a bad chance of completely ignoring the units, and then a surprise! The instructor does not count on the test because it did not include any units. Thus, the 3 for the area and circumference of the whole circle can be reformulated as: What is the purpose of dividing the Angle value of "once around" the circle? What is the length of the arc, the proportion of the circumference being subtended by this Angle? The angle subtended to "a complete revolution" A of 2π. This Angle can also be referred to as the "central" Angle of the sector. Don't be afraid to play with values and π; try to see if you can find a back door for a solution, or some other manipulation that you don't want to need. And I don't have any of those values. But I can find the ray, and then double it to get the diameter, so that's not a problem. The 3 I learned uses lightning. To determine these values, let us first analyze more closely the Area and the 3 of circumference. When I can't think of anything else to do, I plug what I've been given into 3 that can relate to me, and hopefully something will come out of it that I can use. But I always managed to remember the 3 for the area and circumference of an entire circle. Probably better to be careful, and always put some unity, even if it is only "units", in their answers. Thus, the central angle for this sector measures. However, the 3 for the length of the arc includes the central angle. Now we can replace the Angle "once around" (that is, the 2π) by an entire circle with the measure of the subtended Angle of a sector, and this will give us the formula 3 the angle and length of the arc of that sector: Note: If you are working with angles measured in degrees, instead of radians, then an additional conversion factor: Confidence: A large part of the reason why I explained the relationship between the Circle 3 and sector formula I was never able to follow the sector 3 and arc-length formulas; I was always forgetting or spoiling everything. But sometimes we need to work only with one part of the revolution of a circle, or with many revolutions π the circle. So what do I do?, an exercise will give you information π, but like the above, it may not seem like you need the information you do not really need. However, they asked me for a length, given the length of the arc and the Achaia, each one of them uses the radius and the subtended angle. What 3 we use then? As it was, I had to be rich gen π. For this exercise, they gave me the radius and length of the arc. So I'm going to do my plug-in-chug: Then my answer is: Area A = 8ππ square units, arc length s = 2π π In the figure above, the central angle is labeled as "retro" (which is pronounced as "THAY-tuh"). If you eat with a circle with a marked ray line, and you spin the circle a little bit, the marked tree looks like a piece of pie or a slice of pizza: This is called the "sector" of the circle, and the sector looks like the green part of this image: The Angle marked by the original and final locations of the lightning line (that is, the Angle in the center of the pie / pizza) The Angle "subtended" of the sector. So I can bind the radius and length of the arc in the 3 of the length of the arc, and solve for the measure of the subtended angle. If they had indicated a specific unit for the ray, like "inches" or "miles" or whatever, then I could have been more specific in my answer. Which Area A of the sector subtended by the central angle marked of. Once I have this, I can plug-in-chug to find the Area of the sector. odidnetbus odidnetbus olugnA o edno e omoc etnemataxe rev etimrep son ofAtna of a sector falls under the sectoral 3. By convention, first convert "45ππ" to the corresponding radian value of



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