Area of sector worksheets pdf

Rainbow length of sector stop shopping for training materials to find the length of the rainbow! Take this group where you roll by replacing the radius and center angle in the formula with the data values. An area of a large resource sector for high school, this pdf helps the knowledge of the sector area shine in practice. Connect the radius and center angle values in the formula to calculate the sector area. Find rainbow length from Sector's Area Outscore your colleagues with our uniquely written worksheets! These printable worksheets display a sector area with the radius or the resomed angle, prompting you to find the length of the arc. Finding an area of the arch-length sector won't let anything fly in the ointment of your skilled practice! Rearrange the arc length formula for the radius or center angle. Replace the values in the formula for the sector area. Missing Parameters | Type 1 delve into the idea of arc length by troubleshooting these pDFs; From task students with finding the length of the missing arc, radius, or center angle using the missing arc length formula. Missing Parameters | Type 2 Whether it's the urge to change the idea or the desire to promote your practice that makes you go, look no further. Apply the area of a sector formula to find the missing parameters. Issue 1: Find the sector area whose central area and angle are 42 cm and 60° respectively. (Take β = 3.14 and round your answer to one decimal place, if necessary) issue 2 :Find the area of the sector described in the bold line. (Take β = 3.14 and round your answer to one decimal place, if necessary) issue 3 :Find the area of the sector described in bold line. (Take β = 3.14 and round your answer to one decimal place, if necessary) issue 4 :In the diagram given below, LMN is a central angle m∠LMN = 78° and a receding is 4 cm. Find the area of the LMN sector. (Take β = 3.14 and round your answer to one decimal place, if necessary) issue 5 :C circuit, if XCZ is a central angle and XYZ is an engraved angle∠ and xYZ = 58° and the control is 10 inches. Find the region of the XCZ sector. (Take β = 3.14 and rotate your answer to one decimal place, if necessary) issue 6 :If QRS is a central angle m∠QRS = 46°, m∠SRT = 80°, and diameter is 4 inches, then find the area of the shaded sector. (Take β = 3.14 and round your answer to one decimal place, If necessary) Issue 7 :If the sector area of the AB arc intersecting sector is 37 square cm and the level is 11, then find the index of Arc AB. (Take β = 3.14 and override your answer to the nearest integer)Issue 8 :Find the area of the sector and the central angle created by the sector whose level is 21 cm and the length of the arc is 66 cm. (Take β = 3.14 and round your answer to the nearest integer) Issue 9 :Find the area of the sector whose level is 35 cm and peripheral is 147 cm.Issue 10 :If the sector area of the ab arc intersecting sector is 43 square cm and the index of ARC AB is Then find the radius. (Take β = 3.14 and round your answer to one decimal place, if necessary) Detailed answer key issue 1 :Find the area of the sector whose central area and angle are 42 cm and 60° respectively. (Take β = 3.14 and round your answer to one decimal place, If necessary) Solution :The formula for locating the sector area is= (β / 360°) · βr2Plug r = 42, β = 60° and β ≈ 3.14≈ (60° / 360°) · 3.14 · 422≈ 923. 2So, sector territory is about 923.2 cm2. Issue 2 : Find the area of the sector described in bold line. (Take β = 3.14 and round your answer to one decimal place, if necessary) Solution :The formula for positioning the sector area is = (β / 360°) · βr2Plug r = 6, Value = 45° and β ≈ 3.14≈ (45° / 360°) · 3.14 · 62≈ 14.1So, sector area given is approximately 14.1 yd2. Issue 3 : Find the area of the sector described in bold line. (Take β = 3.14 and round your answer to one decimal place, if necessary) Solution :The formula for the location of the sector area is = (β / 360°) · βr2Plug r = 11, β = 300° and β ≈ 3.14≈ (300° / 360°) · 3.14 · 112≈ 316.7So, the area of the given sector is approximately 316.7 cm. Issue 4 :In the diagram given below, LMN is a central angle m∠LMN = 78° and a control is 4 cm. Find the area of the LMN sector. (Take β = 3.14 and round your answer to one decimal place, if necessary) Solution :The formula for the sector area location is = (β / 360°) · βr2Plug r = 4, β = 78° and ≈ 3.14≈ (78° / 360°) · 3.14 · 42≈ 10.9So, LMN sector area is approximately 10.9 cm2. Issue 5: In the C circuit, if XCZ is a central angle and XYZ is an engraved angle∠ and xYZ = 58° and the control is 10 inches. Find the region of the XCZ sector. (Take β = 3.14 and round your answer to one decimal place, if necessary) Solution :By cone the angle of the sentence, we have 1∠2 · m∠XCZ = m∠XYZMultiply both sides by 2.m∠XCZ = 2 · m∠XYZGiven : m∠XYZ = 58°. Then, we have∠XCZ = 2 · 58 degrees∠XCZ = 116° so, the central angle is 116°. The formula for the location of the sector area is= (β / 360°) · βr2Plug r = 10, β = 116° and ≈ 3.14≈ (116° / 360°) · 3.14 · 102≈ 101.2So, the region of the XCZ sector is about 101.2 in2. Issue 6 :If QRS is a central angle m∠QRS = 46°, m∠SRT = 80°, and diameter is 4 inches, then find the area of the shaded sector. (Take β = 3.14 and round your answer to one decimal place, if necessary) Solution :Given : m∠QRS = 46° and m∠SRT = 80°. Then, we have m∠QRS + m∠SRT = 46° + 80°m∠QRS + m∠SRT = 126° measure of the central angle of the shaded area :m∠QRT = 360° - 12 6°m∠QRT = 234° radius of the circle:radius = diameter / 2Radius = 4 / 2Radius = 2 in formula for area position of sector is = (β / 360°) · βr2Plug r = 2, β = 234° and M ≈ 3.14≈ (234° / 360°) · 3.14 · 22≈ 8.2So, The shaded sector area is approximately 8.2 inches by 2. Issue 7 :If the sector area of the AB arc intersecting sector is 37 cm square and the radius is 11, then find the index of Arc AB. (take β = 3.14 and override your answer to the entire nearest number)Solution :Given : Sector is intersecting arc Because the given sector intersects with the AB arc, the Arc AB index is but the central angle of the given sector. Figure : Sector size is 37 cm². Then, we have(θ / 360°) · πr2 = 37Plug r = 11 and π ≈ 3.14(θ / 360°) · 3.14 · 112 = 37(θ / 360°) · 3.14 · 112 = 37(θ / 360°) · 379.94 = 37Divide both sides by 379.94(θ / 360°) = 37 / 379.94(θ / 360°) = 0.09738Multiply both sides by 360°.θ = 0.09738 · 360°θ ≈ 35So, the measure of Arc AB is about 35°. Issue 8: Find the sector area and the central angle created by the sector whose area is 21 cm long and the length of the arc is 66 cm. (Take β = 3.14 and round your answer to the nearest whole number)Solution:The formula for positioning an area of the sector is = (l · r) / 2 plug l = 66 and r = 21.= (66 · 21) / 2 = 693So, sector area is 693 cm. Sector-generated central angle :Sector area = 693 (β / 360°) · βr2 = 693 (β / 360°) · 3.14 · 212 = 693 (360°·) · 1384.12 74 = 74 693Multiply both sides by 1384.74 / 360 °.β · (360° / 1384.74)β ≈ 180° so, the area of the sector is 693 square cm and the index of central angle is 180 °. Issue 9 :Find the area of the sector whose radius is 35 cm and scope is 147 cm.Solution:Formula for solving the sector : Circumference = length of the arc + 2 · radiusorP = l + 2rGiven : The sector scope is 147 cm and the radius is 35 cm. We have + 2 · 35 = 147l + 70 = 147Subtract 70 on both sides.l = 77 The formula for the sector area location is = (l · r) / 2 plug l = 77 and r = 35 = (77 · 35) / 2 = 1347.5So, Sector area is 1347.5 cm2. Issue 10 :If the sector area of the AB arc intersecting sector is 43 cm square and the index of Arc AB is 43°, then find the radius. (Take β = 3.14 and round your answer to one decimal place, if necessary) Solution :Given : Arc AB's index is 43°. Because the given sector intersects with the AB arc, the Arc AB index is but the central angle of the given sector. After that, the index of the sector's central angle is 43°. Figure : Sector size is 37 cm². Then, we have (β/360°) · βr2 = 43Plug β = 43° and β ≈ 3.14 (43° / 360°) · 3.14 · r2 = 43Dived both sides by 3.14(43° / 360°) · 43 / 3.140.1194 · r2 = 13.6943r2 = 13.6943 / 0.1194r2 = 11.7834 / 0.1194r2 = 114.6926r ≈ 10.7So, The radius is approximately 10.7 cm. Apart from the things given above, if you need any other math stuff, please use our custom Google search here. If you have sea feedback on our math content, please send us : v4formath@gmail.com We always appreciate your feedback. You can also visit the following web pages about different things in math. word problems converting metric units word problems Troubleshooting simple interest problems Solving compound interest problems Troubleshooting types of angles Complementary angles and completing word problems Duplicate facts Word trigonometry problems Word problems Incentives Word problems Profit word problems and loss of word problems Marking and marking word problems Decim word problemsal Troubleshooting words in fracturesRemover word problems on practices involving phase one word problems linear inequality word problems and word problems proportionality time and word problems at work Troubleshooting word problems in groups and diagrams Cutting groupsThis problems words on agesFind word-to-word problems statement of several word problemsSolving Fixed speed issues Average speed Word problems in the sum of angles of a triangle is 180 degrees Other topics Shortcuts for profit and loss Shortcuts to table shortcuts Time, Speed and distance shortcutsRatio and proportional shortcutsCont control and a variety of rational functionsCont control and a variety of rational functions with holesGraphs Rational functions Photograph rational functions with holesRecloth of decimal digits for fractures Representation Rational of rational numbersSet a square root using a long divisionL.C.M a method for troubleshooting time and work problems word problems in algebraic expressions Adjust when 2 Power 256 is divided into 17Remainder when 17 Power 23 is divided 16Sum of all three-digit numbers is divided by 6Sum of all three-digit numbers divided by 7Sum of all three-digit numbers divided by 8Sum of all three-digit numbers generated by 1, 3, 4Sum of all three four-digit numbers created with zero digits per sum of all three four-digit numbers created using 0 1, 2, 3Sum of all three four-digit numbers created using 1 , 2, 5, 6