Quiz Thursday/Friday on Assignments 1-5.
You may make a page of notes with the formulas.

Name: _____
Period: ____

Find the area of each. You may need the Pythagorean Theorem or Special Right Triangles.

1)	2)	3)
12 cm / 5 cm / h / 3 cm	12 / 8.3	15 / 12.4

4)	5)	6)
h / 17 / 11 / 25 / 8	16 / 12 / 60°	8 cm / 60°
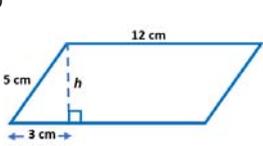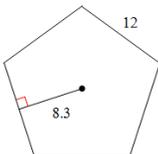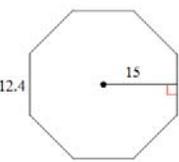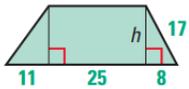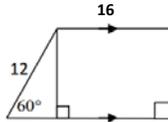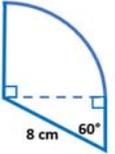
Find the indicated value by writing and solving an equation.

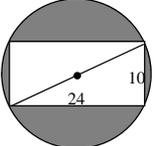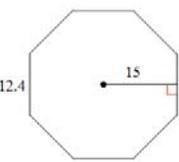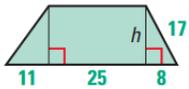| 7) Find b_1 for the trapezoid. b_1 / 10 cm / $A = 135$ cm^2 / 18 cm	8) If the base of a triangle is 12 cm and the area is 42 cm find the height. 9) If the base of a rectangle is 8 cm and the perimeter is 60 cm find the find the height and then find the area.	10) If the area of a circle is 81π cm^2. Find the circumference. 11) If the circumference of a circle is 20 inches. Find the area.
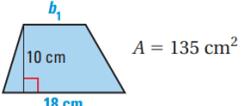
More problem solving with area and perimeter:

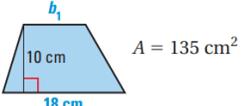| 12) Find the total area enclosed. 9 in. / 16 in. / 21 in. / 20 in.	13) Find the shaded area: 16 cm	14) Find the perimeter of the shaded area. 12 in
15) Find the length of $\overparen{AB}$ **and** the area of sector BCA. B / C 140° / 8 cm / A	16) Write and solve an equation to find x. $x-7$ / $x+2$ / x	17) Circle and a rectangle (with base 24 cm and height 10 cm). Find shaded area. 10 / 24
18) The shaded area is 64π in^2 and the smaller circle has a radius of 6 inches. Write and solve an equation to find the radius of the larger circle? No decimals, keep work in terms of π. Note: Figure not to scale.	19) a) Find the total area. b) Challenge: Find the perimeter (exact form) $D = 8$ cm / 12 cm	20) The perimeter of the triangle is 42 feet. Find the lengths of its sides. $2x^2$ / $x+6$ / $x^2 + x$
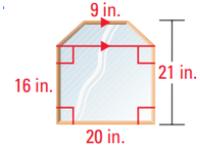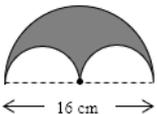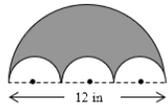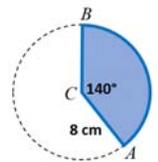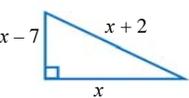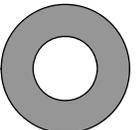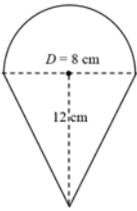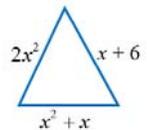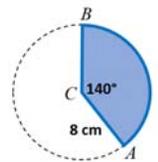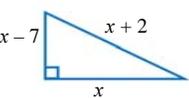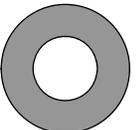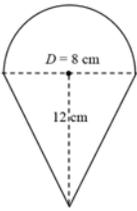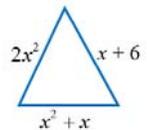
Simplify each expression:

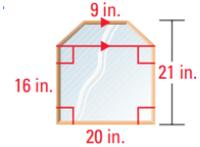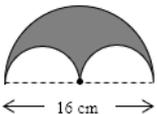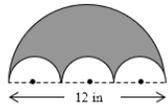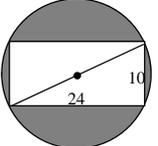| 20) $\frac{2}{3}(5\pi) + \frac{5}{3}(\pi)$	21) $\frac{\pi}{4}\left(\frac{2}{3}\right)^2 - \pi\left(\frac{1}{6}\right)^2$	22) $\frac{\pi}{4} - \frac{\pi}{3}$