G7 M3 L20 Problem Set Be sure you check out the extra help video if you need it.

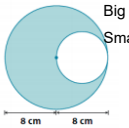
Problem Set

Don't forget your heading :)

Name:
Date:
G7 M3 L20

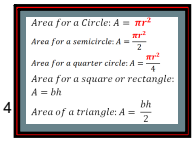
Problem Set

1. Find the area of the shaded region. Use 3.14 for π.

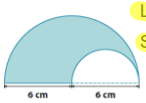


Big circle, d = 16 r = 8

Small circle, d = 8, r = 4

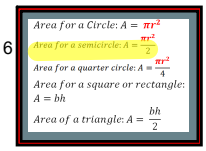


2. The figure shows two semicircles. Find the area of the shaded region. Use 3.14 for π.



Large half circle: find area, d = 12, r = 6

Small half circle: d = 6, r = 3



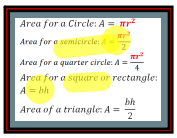
3. The figure shows a semicircle and a square. Find the area of the shaded region. Use 3.14 for π.

d = 24

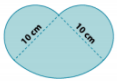
r = 12

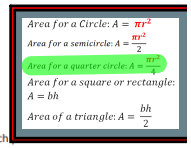
Area of rectangle

Area of the semicircle



4. The figure shows two semicircles and a quarter of a circle. Find the area of the shaded region. Use 3.14 for π.

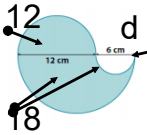




5. Jillian is making a paper flower motif for an art project. The flower she is making has four petals; each
formed by three semicircles as shown below. What is the area of the paper flower? Provide your answer in terms
of π.

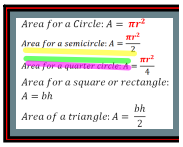
d = 12

d = 18

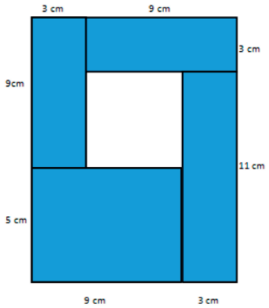


d = 6 for white half circle

1) Yellow half circle
2) green half circle
3) white half circle
4) total area

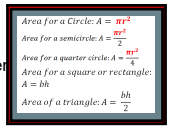


6. The figure is formed by five rectangles. Find the area of the unshaded rectangular region.

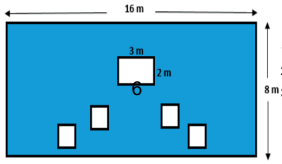


1) Find area of BIG rectangle

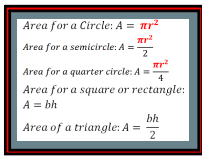
2) Find area of each of the smaller rectangles



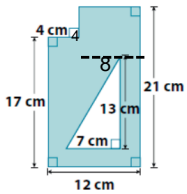
7. The smaller squares in the shaded region each have side lengths of 1.5 m. Find the area of the shaded region.

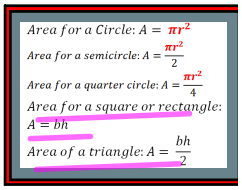


1) Area of BIG rectangle
2) Area of small squares/rectangles
3) Add or subtract

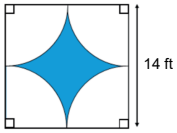


8. Find the area of the shaded region.





9) The unshaded regions are quarter circles. Approximate the area of the shaded region.



d = 14

r = 7

Extra help video on the agenda. Check it out if you're stuck. Live help avaiilable at 11-Daily