

UNIT 9 REVIEW

NAME: _____

Area of Polygons and Circles

DATE: _____

$A = bh$ $A = \frac{1}{2}bh$ $A = \frac{1}{2}(b_1 + b_2)h$ $A = \frac{1}{2}d_1d_2$ $A = \frac{1}{2}ap$ $A = \pi r^2$ $C = 2\pi r$

Find the area of each. Label your answer. Round to the nearest tenth.

1. Triangle

2. Parallelogram

3. Kite

4. Trapezoid

5. Kite

6. Regular Hexagon
Side = 8 ft

Find the missing part. Label your answer. Round to the nearest tenth.

7. Triangle

Area = 36 mi²

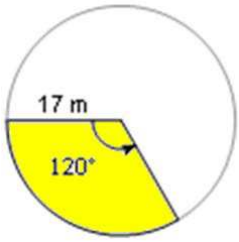
8. Trapezoid

Area = 37.4 mi²

9. Circle K with Area = 200 m²

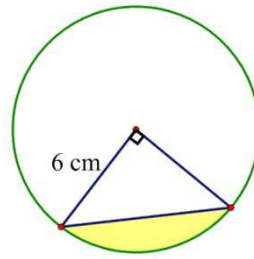
Find the area of the sector. Round to nearest tenth.

10.



Find the area of the segment. Round to nearest tenth.

11.



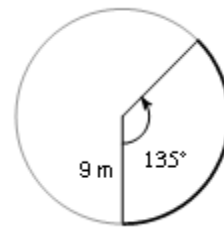
Find the circumference. Leave in terms of pi.

12.



Find the length of each arc. Leave in terms of pi.

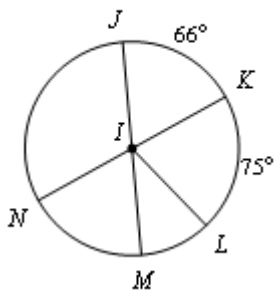
13.



Find the measure of the central angle. Assume lines that appear to be diameters are.

14.

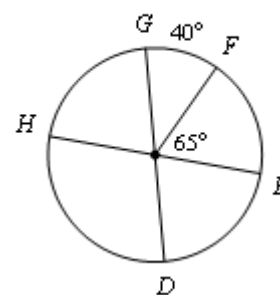
$m\angle MIN$



Find the measure of the arc. Assume lines that appear to be diameters are.

15.

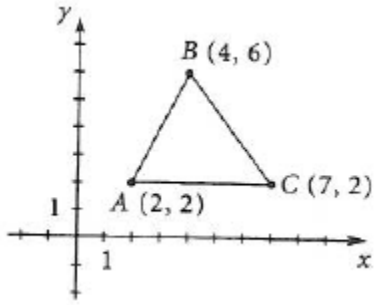
$m\widehat{HF}$



APPLICATIONS

1. SAT PREP SHOW YOUR WORK!!!!

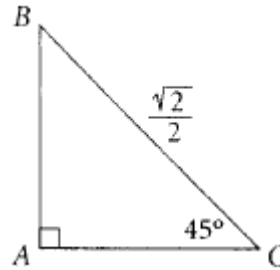
MULTIPLE CHOICE



What is the perimeter of triangle ABC ?

- (A) 10
- (B) 11
- (C) $10 + \sqrt{5}$
- (D) 13
- (E) $10 + 2\sqrt{5}$

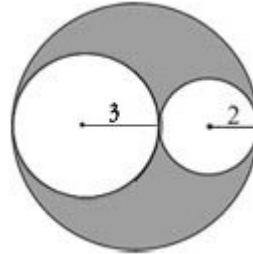
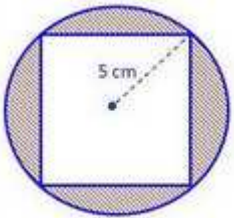
GRID IN



What is the area of ΔABC shown above?

•	•	•	•
0	0	0	0
①	①	①	①
②	②	②	②
③	③	③	③
④	④	④	④
⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨

2. SHADED REGION Find the area of the shaded region.



3. PERIMETER

Use the picture to the right to find...

Perimeter =

Area =

