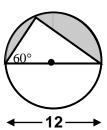
Independent Practice: MORE ARC LENGTH & AREA OF SECTORS

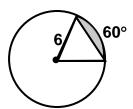
NAME:	DATE:	PERIOD:
The sector AOB is described by $m\angle$ AC Leave answers in terms of π .	OB and the radius of circle O.	Find the length of arc AB.
1. Arc Length =	$m\angle AOB = 240^{\circ}$ and $r = 12$	
2. Arc Length =	$m\angle AOB = 108^{\circ}$ and $r = 10$	
The sector AOB is described by $m\angle$ AC Leave answers in terms of π .	OB and the radius of circle O.	Find the area of sector AOB
3. Sector Area =	$m\angle AOB = 30^{\circ}$ and $r = 6$	
4. Sector Area =	m∠AOB = 240° and r = 9	
5. Sector Area =	$m\angle AOB = 108^{\circ}$ and $r = 10$	

Find the area of each shaded region below.

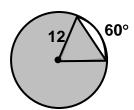
6. Area = _____



7. Area = _____

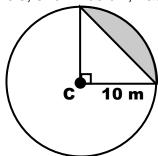


8. Area = _____



REAL LIFE SITUATIONS - Find the correct answer for each of the following. Clearly circle or bubble in your answer as necessary. *Work must be shown in order to receive credit*.

9. A circle, shown below, has center C.



What is the area of the shaded region?

- A. 28.5 square meters
- B. 78.5 square meters
- C. 214 square meters
- D. 264 square meters