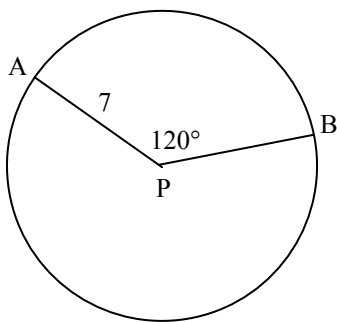


Chapter 8: Circles
Lesson 8-2: Formulas
Homework:

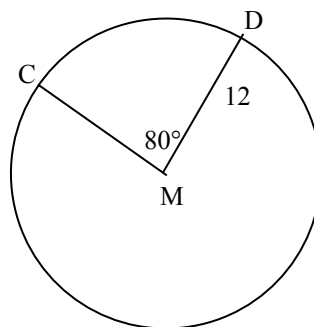
name _____
date _____
period ____

Find the value of the missing information.

- | | | | |
|----------------------------|-------------------|---------------------------|---------------|
| 1. circle: radius = 6 , | diameter = ____ , | circumference = ____ , | area = ____ |
| 2. circle: radius = ____ , | diameter = 18 , | circumference = ____ , | area = ____ |
| 3. circle: radius = ____ , | diameter = ____ , | circumference = 50.24 , | area = ____ |
| 4. circle: radius = ____ , | diameter = ____ , | circumference = ____ , | area = 379.94 |
| 5. circle: radius = ____ , | diameter = ____ , | circumference = 14π , | area = ____ |



6. Find the area of circle P.
answer _____



7. Find the circumference of circle M.
answer _____

8. Find the area of the sector in circle P.
Answer _____

9. Find the length of the arc CD.
Answer _____

In a given circle described below, find the missing parts.

- | | | | |
|---------------------------|---------------------------|-------------------------|--------------------|
| 10. arc : radius = 5 , | arc angle = 20° , | arc length = ____ , | sector area ____ |
| 11. arc : radius = 7 , | arc angle = 60° , | arc length = ____ , | sector area ____ |
| 12. arc : radius = 12 , | arc angle = 100° , | arc length = ____ , | sector area ____ |
| 13. arc : radius = ____ , | arc angle = 120° , | arc length = 12.56 | sector area ____ |
| 14. arc : radius = ____ , | arc angle = 40° , | arc length = ____ , | sector area 9π |
| 15. arc : radius = 10 , | arc angle = ____ , | arc length = 10π , | sector area ____ |
| 16. arc : radius = 8 , | arc angle = ____ , | arc length = 2π , | sector area ____ |
| 17. arc : radius = ____ , | arc angle = 30° , | arc length = 10 , | sector area ____ |
| 18. arc : radius = 10 , | arc angle = ____ , | arc length = 14.6 , | sector area ____ |
| 19. arc : radius = 50 , | arc angle = ____ , | arc length = 80π , | sector area ____ |
| 20. arc : radius = ____ , | arc angle = 90° , | arc length = 120π , | sector area ____ |