mobius

Math worksheet on *'Geometry of Circles - Sector Area - Equation to Radius and Angle (Level 1)'*. Part of a broader unit on *'Geometry - Intermediate - Practice'*

Learn online: app.mobius.academy/math/units/geometry_intermediate_practice/

1 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 25}{6}$$

a	r=8, angle=15º
b	r=1, angle=0º
c	r=1, angle=60º
d	r=8, angle=120º
e	r=9, angle=0º
f	r=5, angle=60º

2 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 1}{4}$$

a	r=1, angle=15º
b	r=1, angle=120º
c	r=3, angle=135º
d	r=1, angle=45º
e	r=1, angle=90º
f	r=5, angle=75º

3 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 16}{3}$$

a	r=1, angle=165º
b	r=8, angle=45º
c	r=1, angle=180º
d	r=4, angle=120º
e	r=4, angle=45º
f	r=4, angle=165º

4 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 16}{4}$$

a	r=1, angle=105º
b	r=4, angle=90º
c	r=6, angle=90º
d	r=1, angle=60º
e	r=4, angle=105º
f	r=6, angle=75º

5 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 1}{6}$$

a	r=1, angle=60º
b	r=5, angle=60º
c	r=5, angle=15º
d	r=3, angle=120º
e	r=2, angle=75º
f	r=2, angle=60º

6 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 4}{12}$$

a	r=2, angle=90º
b	r=1, angle=75º
c	r=2, angle=30º
d	r=3, angle=90º
e	r=2, angle=15º
f	r=3, angle=30º

7 If the area of a sector of a circle is given by this equation, what is the radius of the circle and the sector angle?

$$\frac{\pi \cdot 9}{4}$$

a	r=1, angle=75º
b	r=5, angle=105º
c	r=3, angle=90º
d	r=1, angle=60º
e	r=3, angle=150º
f	r=2, angle=135º