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?

$$\frac{\pi \cdot 4}{6}$$

a	r=3, angle=90º
b	r=1, angle=60º
c	r=4, angle=90º
d	r=0, angle=30º
e	r=2, angle=60º
f	r=4, angle=105º

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?

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

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

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?

$$\frac{\pi \cdot 36}{12}$$

a	r=9, angle=90º
b	r=1, angle=30º
c	r=7, angle=30º
d	r=6, angle=45º
e	r=6, angle=75º
f	r=6, angle=30º

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?

$$\frac{\pi \cdot 9}{6}$$

a	r=1, angle=105º
b	r=3, angle=60º
c	r=1, angle=45º
d	r=7, angle=120º
e	r=3, angle=15º
f	r=6, angle=0º

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?

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

a	r=5, angle=60º
b	r=4, angle=15º
c	r=3, angle=60º
d	r=0, angle=75º
e	r=3, angle=90º
f	r=2, angle=15º

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?

$$\frac{\pi \cdot 1}{12}$$

a	r=1, angle=90º
b	r=3, angle=75º
c	r=1, angle=30º
d	r=4, angle=90º
e	r=2, angle=15º
f	r=2, angle=0º

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?

$$\frac{\pi \cdot 16}{2}$$

a	r=1, angle=135º
b	r=1, angle=180º
c	r=2, angle=225º
d	r=4, angle=120º
e	r=2, angle=180º
f	r=4, angle=180º