Math worksheet on *'Surface Area - All Circular - Words to Pi Value (Level 1)'*. Part of a broader unit on *'Geometry - Volume and Surface Area of Complex 3D Shapes - Advanced'*

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1 What is the surface area of this shape? A Cylinder with radius 4 and height 5

a $SA = \pi \cdot 4^2 \cdot 5$

b $SA = 2\pi \cdot 4 \cdot 5 + 2\pi 4^2$

2 What is the surface area of this shape? A Sphere with radius 3

a $SA = \frac{4}{3}\pi 3^3$

b $SA = 4\pi \cdot 3^2$

3 What is the surface area of this shape? A Sphere with radius 4

a $SA = 4\pi \cdot 4^2$

b $SA = 2\pi \cdot 4 \cdot 5 + 2\pi 4^2$

4 What is the surface area of this shape? A Cone with radius 4 and a height of 3

a $SA = \pi \cdot 3 \cdot (3 + \sqrt{4^2 + 3^2})$

b $SA = \pi \cdot 4 \cdot (4 + \sqrt{3^2 + 4^2})$

5 What is the surface area of this shape? A Sphere with radius 5

a $SA = \frac{4}{3}\pi 5^3$

b $SA = 4\pi \cdot 5^2$

6 What is the surface area of this shape? A Cylinder with radius 2 and height 4

a $SA = 2\pi \cdot 2 \cdot 4 + 2\pi 2^2$

b $SA = 2\pi \cdot 4 \cdot 2 + 2\pi 4^2$

7 What is the surface area of this shape? A Cylinder with radius 3 and height 5

a $SA = 2\pi \cdot 3 \cdot 5 + 2\pi 3^2$

b $SA = 2\pi \cdot 5 \cdot 3 + 2\pi 5^2$