

Name: Key

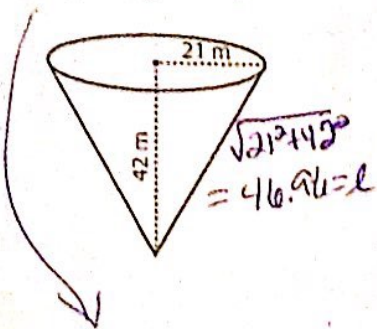
Score: _____

WARM - UP

Surface Area - Mixed Shapes

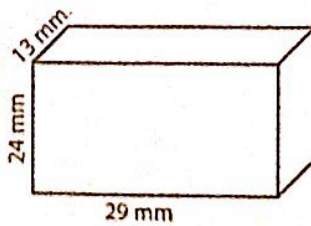
Find the surface area of each shape. Round the answer to nearest tenth. (use $\pi = 3.14$)

1) $SA = \pi r l + \pi r^2$
 $= \pi(21)(46.916) + \pi(21)^2$



Surface Area = 4483.39 m²

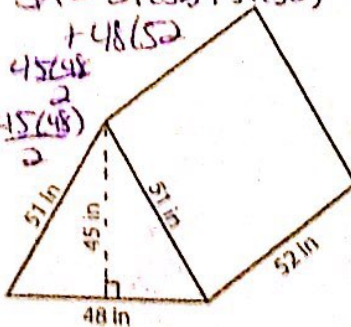
2) $SA = 2(13 \cdot 24 + 24 \cdot 29 + 13 \cdot 29)$



Surface Area = 2770 mm²

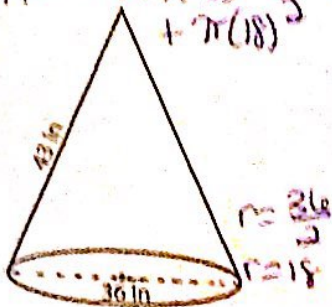
SA = add up area of all faces

5) $SA = 51(52) + 51(52) + 48(52) + \frac{45 \cdot 48}{2} + \frac{45 \cdot 48}{2}$



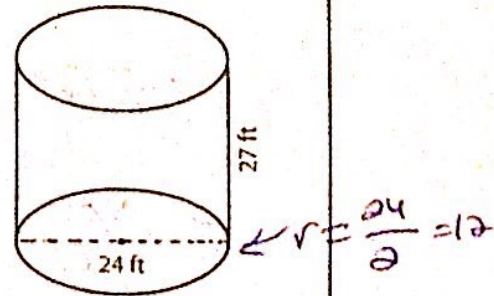
Surface Area = 9960 in²

8) $SA = \pi r l + \pi r^2$
 $SA = \pi(18)(43) + \pi(18)^2$



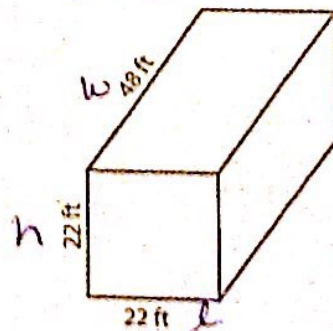
Surface Area = 3449.47 in²

3) $SA = 2\pi r h + 2\pi r^2$
 $= 2\pi(12)(27) + 2\pi(12)^2$



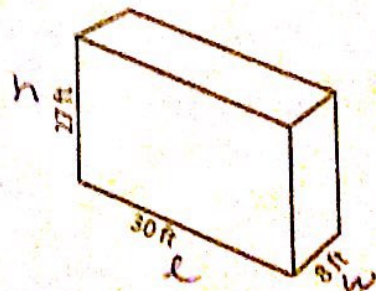
Surface Area = 2940.53 ft²

6) $SA = 2(lw + wh + lh)$
 $= 2(22 \cdot 48 + 48 \cdot 22 + 22 \cdot 22)$



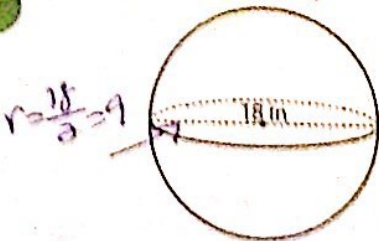
Surface Area = 5192 ft²

9) $SA = 2(lw + wh + lh)$
 $SA = 2(30 \cdot 8 + 8 \cdot 27 + 30 \cdot 27)$



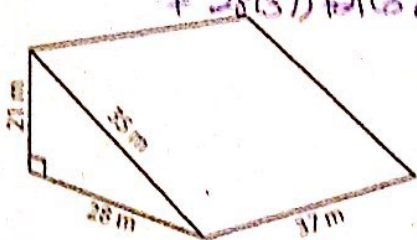
Surface Area = 2532 ft²

4) $SA = 4\pi r^2$
 $= 4\pi(9)^2$



Surface Area = 1017.88 in²

7) $SA = \frac{21 \cdot 28}{2} + \frac{21 \cdot 35}{2} + 28(37) + 21(37)$



Surface Area = 3696 m²