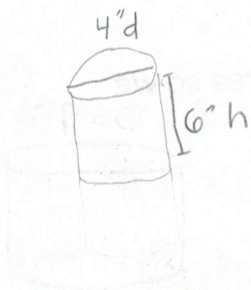


3

We need to cover the ends of a toilet paper roll. Calculate surface area so we know how much paper is needed.

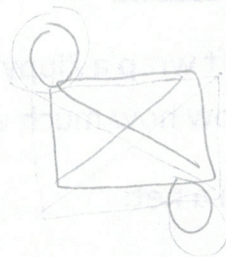


$$SA = 2\pi r^2$$

$$SA = (2 \times 3.14 \times r \times r)$$

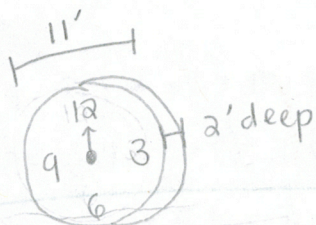
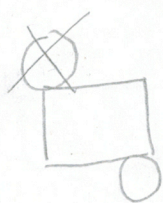
$$SA = (2 \times 3.14 \times 2 \times 2)$$

$$SA = 25.12 \text{ inches}^2$$



4

The football field's time clock needs to be repainted. What is the surface area that needs to be painted.



$$SA = \pi r^2 + 2\pi rh$$

$$SA = (3.14 \times r \times r) + (2 \times 3.14 \times r \times h)$$

$$SA = (3.14 \times 5.5 \times 5.5) + (2 \times 3.14 \times 5.5 \times 2)$$

$$SA = 94.985 + 69.08$$

$$SA = 164.065 \text{ feet}^2$$

C 3/4