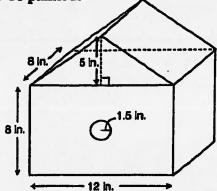
9.5

Solve Problems Involving Surface Area and Volume

Date: _____

4. All sides, including the bottom, of the birdhouse shown below are to be painted.





What is the total surface area that will be painted?

- Area of back = ____ × ____
 - =____
- Area of front = _____ × _____ ____
- Area of 2 sides = ____ X ____ X ____
- Area of base = ____ × ____
- Area of front and back triangles = ____ × ___ × ____
- Area of roof = _____×
- Total surface area to be painted = _____



Solve Problems Involving Surface Area and Volume

Date: _____

All sides, including the bottom, of the birdhouse shown below are to be painted.



TTr2 - Area of

Circle

What is the total surface area that will be painted?

Area of back =
$$\frac{12}{9}$$
 × $\frac{8}{}$

Area of front =
$$\frac{12}{38.9} \times \frac{8}{-55} = \frac{55}{1.5}$$

Area of 2 sides =
$$\frac{2}{1.28} \times \frac{8}{} \times \frac{8}{}$$

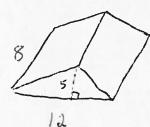
Area of base =
$$\frac{12}{96} \times \frac{8}{12}$$

Area of front and back triangles =
$$\frac{1}{2} \times \frac{12}{30} \times \frac{5}{5}$$

Area of roof =
$$\frac{2}{2} \times \frac{8 \times 7.8}{1}$$

$$\int_{0}^{2} = \frac{bxh}{2} = \frac{12x5}{2} = \frac{60}{2} = 30$$

Total surface area to be painted = $\frac{453.7}{10^2}$ in 2



$$a^{2}+b^{2}=c^{2}$$

$$6^{2}+5^{2}=c^{2}$$

$$36+25=c^{2}$$

$$61=c^{2}$$

$$7.8=c$$