
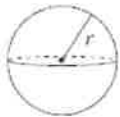

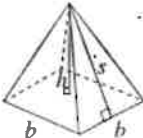
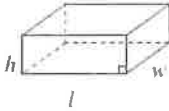


Name:

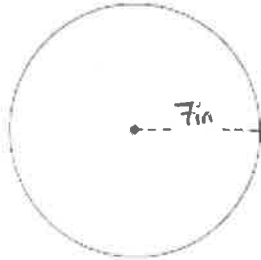
Final Exam Review Pack – Section 1**Surface Area and Volume General Formula Sheet**

Geometric Solid	Surface Area	Volume
Cylinder 	$A_{top} = \pi r^2$ $A_{base} = \pi r^2$ $A_{side} = 2\pi rh$ $SA = 2\pi r^2 + 2\pi rh$	$V = (\text{area of base}) \times h$
Sphere 	$SA = 4\pi r^2$ or $SA = \pi d^2$	$V = \frac{4}{3}\pi r^3$
Cone 	$A_{side} = \pi rs$ $A_{base} = \pi r^2$ $SA = \pi r^2 + \pi rs$	$V = \frac{1}{3} \times (\text{area of base}) \times h$
Square-Based Pyramid 	$A_{triangle} = \frac{1}{2}bs$ (for each triangle) $A_{base} = b^2$ $SA = 2bs + b^2$	$V = \frac{1}{3} \times (\text{area of base}) \times h$
Rectangular Prism 	$SA = wh + wh + lw + lw + lh + lh$ or $SA = 2(wh + lw + lh)$	$V = (\text{area of base}) \times h$
General Right Prism	$SA = \text{the sum of the areas of all the faces}$	$V = (\text{area of base}) \times h$
General Right Pyramid	$SA = \text{the sum of the areas of all the faces}$	$V = \frac{1}{3} \times (\text{area of base}) \times h$

Section 1.1 – Area

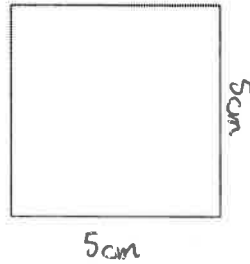
Find the area of each figure.

1)



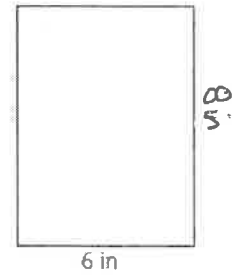
Area = _____

2)



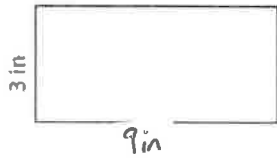
Area = _____

3)



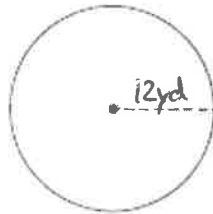
Area = _____

4)



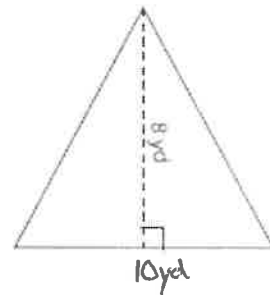
Area = _____

5)



Area = _____

6)



Area = _____

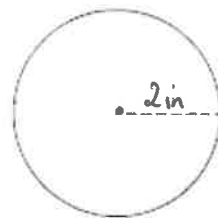
Find the area of each figure.

7)



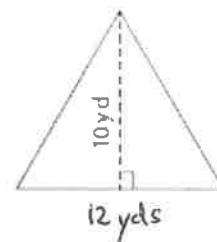
Area = _____

8)



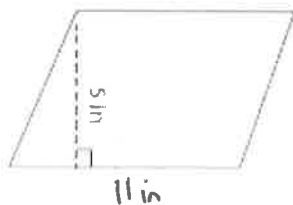
Area = _____

9)



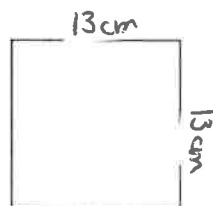
Area = _____

10)



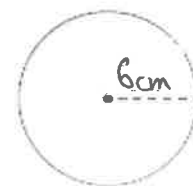
Area = _____

11)



Area = _____

12)

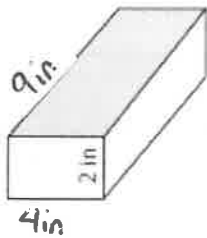


Area = _____

Section 1.2 – Surface Area

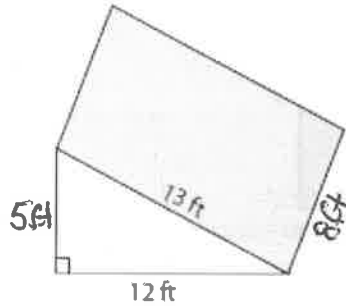
Find the Exact Surface Area of the following shapes. Round to 1 decimal place if necessary.

1)



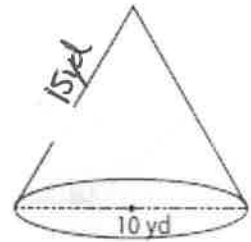
Surface Area = _____

2)



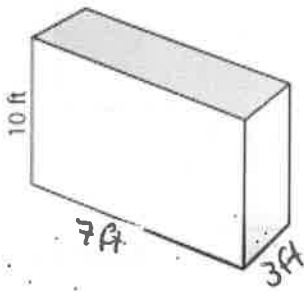
Surface Area = _____

3)



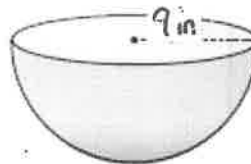
Surface Area = _____

4)



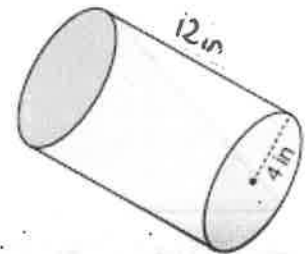
Surface Area = _____

5)



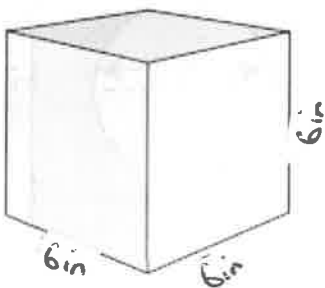
Surface Area = _____

6)



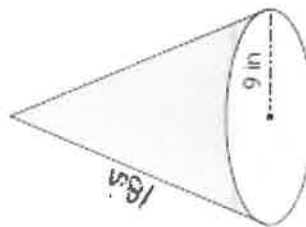
Surface Area = _____

7)



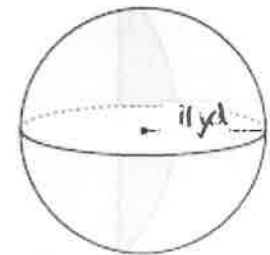
Surface Area = _____

8)



Surface Area = _____

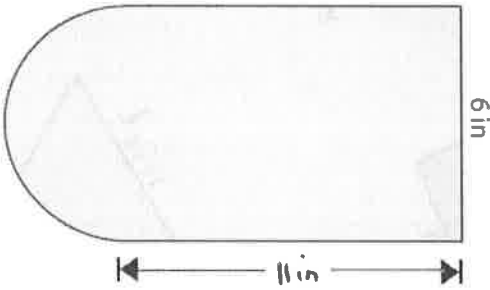
9)



Surface Area = _____

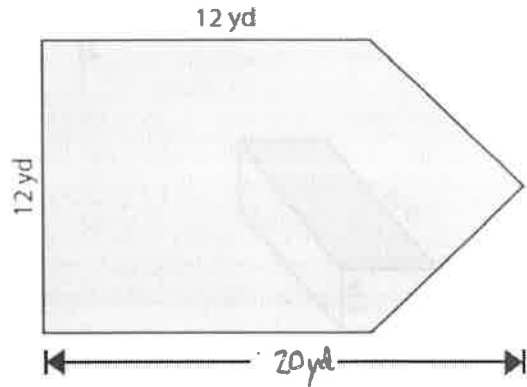
Find the area of each figure. Round the answer to 2 decimal places if necessary.

13)



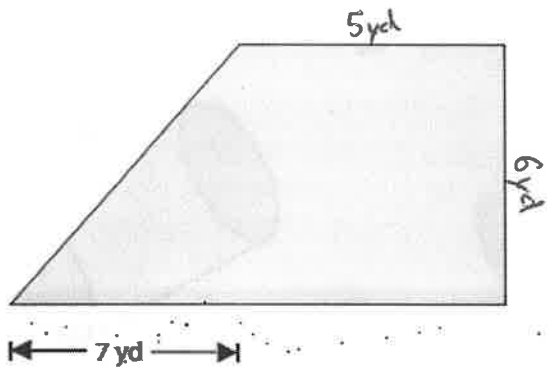
Area = _____

14)



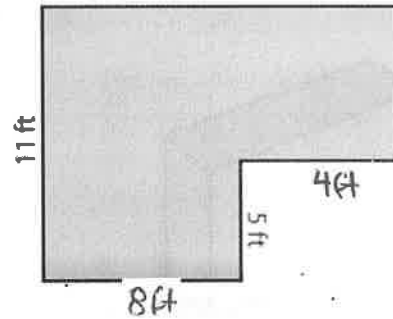
Area = _____

15)



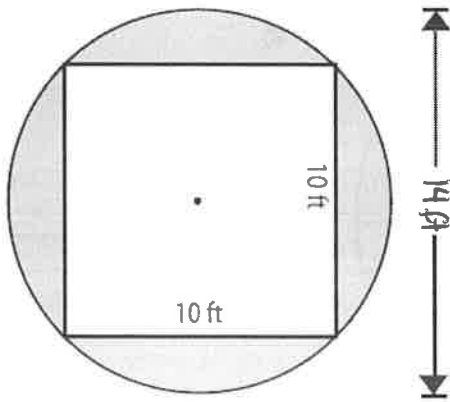
Area = _____

16)



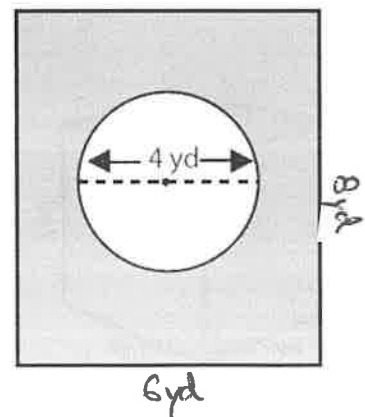
Area = _____

17)



Area = _____

18)

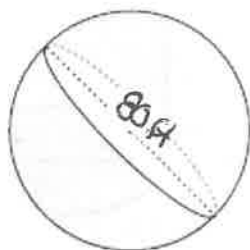


Area = _____

Section 1.3 – Volume

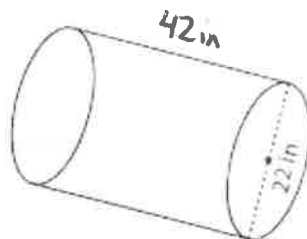
Find the volume of each shape. Round the answer to nearest tenth.

1)



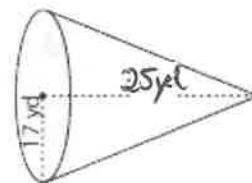
Volume = _____

2)



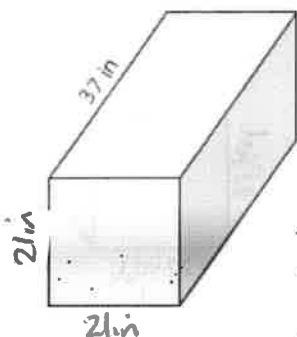
Volume = _____

3)



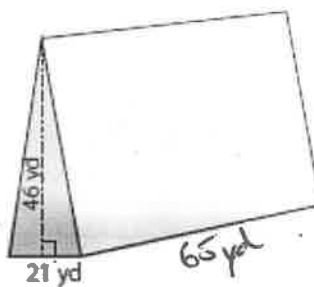
Volume = _____

4)



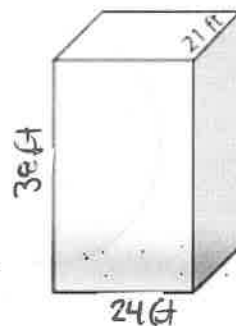
Volume = _____

5)



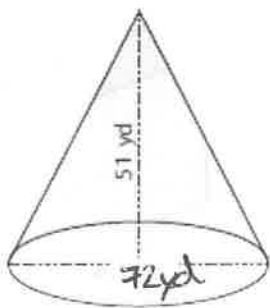
Volume = _____

6)



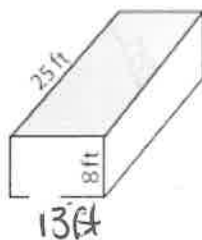
Volume = _____

7)



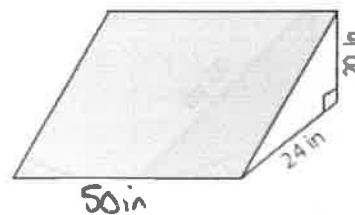
Volume = _____

8)



Volume = _____

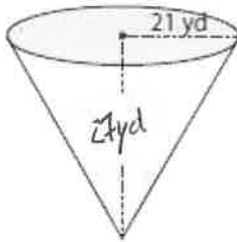
9)



Volume = _____

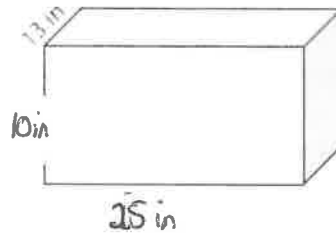
Find the Exact Surface Area of the following shapes. Round to 1 decimal place if necessary.

10)



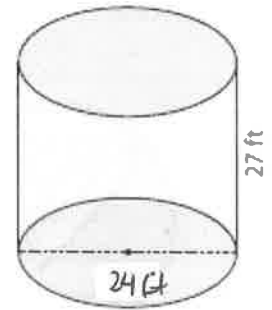
Surface Area = _____

11)



Surface Area = _____

12)



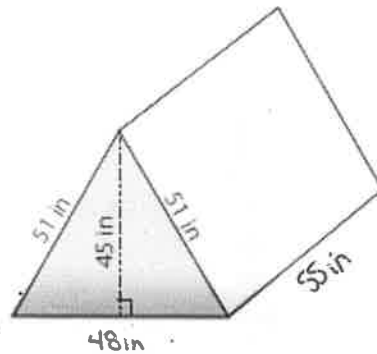
Surface Area = _____

13)



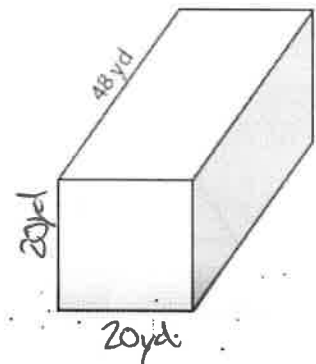
Surface Area = _____

14)



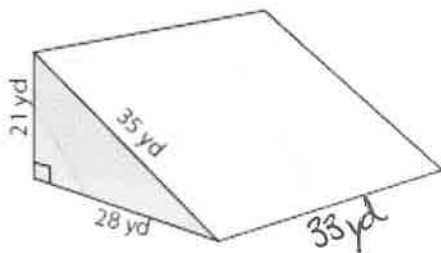
Surface Area = _____

15)



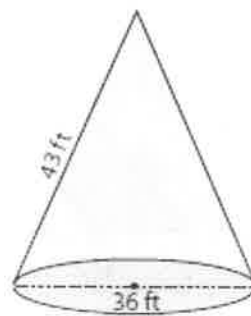
Surface Area = _____

16)



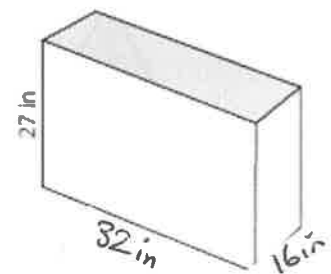
Surface Area = _____

17)



Surface Area = _____

18)



Surface Area = _____