

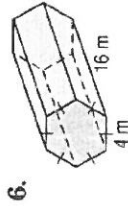
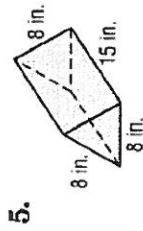
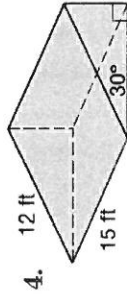
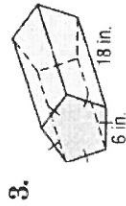
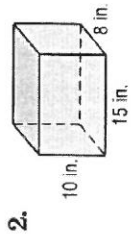
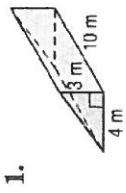
Name: \_\_\_\_\_

Solids Review

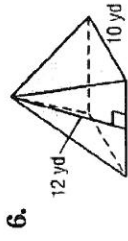
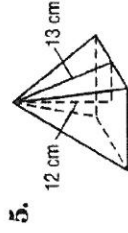
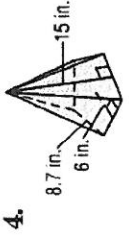
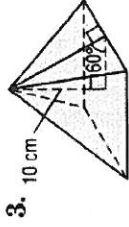
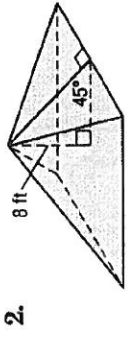
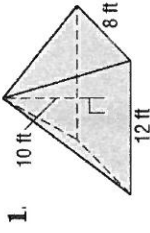
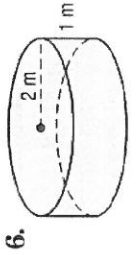
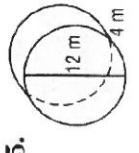
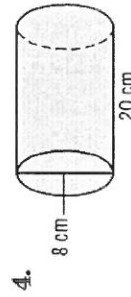
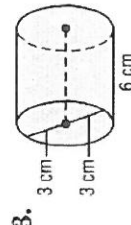
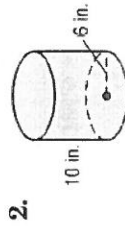
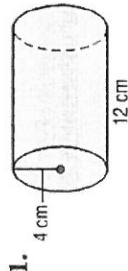
Pyramids

Find the surface area and volume of each solid below.

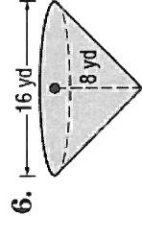
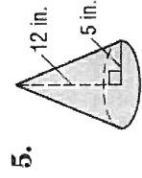
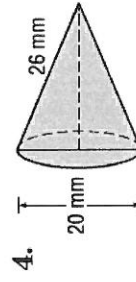
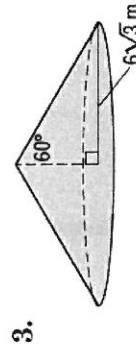
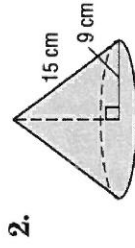
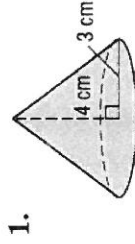
Prisms



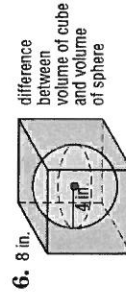
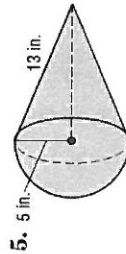
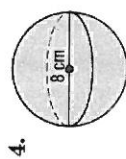
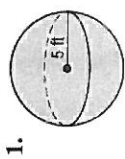
Cylinders



Cones



### Spheres



- Pyramids:  
 1) SA = 318.5; V = 320  
 3) SA = 399.9; V = 444.4  
 6) SA = 340; V = 363.62

### Cones:

- 1) SA = 75.4; V = 37.7  
 3) SA = 731.07; V = 678.58  
 5) SA = 282.74; V = 314.15

### Spheres:

- 1) SA = 314.15; V = 523.59  
 3) SA = 2412.74; V = 8578.64  
 5) SA = 361.28; V = 575.95  
 8) SA = 2827.43
- 2) SA = 678.58; V = 1017.8  
 4) SA = 1130.97; V = 2513.27  
 6) SA = 485.41; V = 536.16
- 2) SA = 339.29; V = 452.38  
 4) SA = 201.06; V = 268.08  
 6) V = 243.92  
 7) V = 9202.77

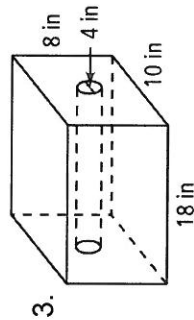
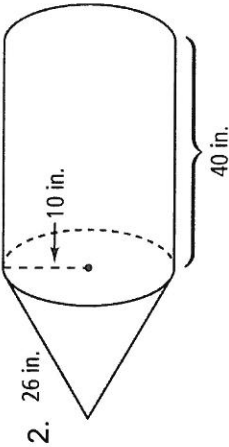
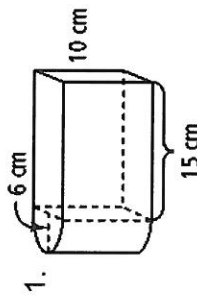
### Composite Solids:

- 1) 2365.5  
 2) 15079.6  
 3) 1213.8

7. The total surface area of a sphere is  $676\pi$ . Find the volume of the sphere

8. The volume of a sphere is  $4500\pi$ . Find the surface area of the sphere

### Composite Solids – Find the volume of the solids.



### ANSWER KEY

#### Prisms:

- 1) SA = 132; V = 60  
 2) SA = 700; V = 1200  
 3) SA = 663.87; V = 1114.874  
 SA = 488.24; V = 467.65  
 5) SA = 415.42; V = 415.69  
 6) SA = 467.14; V = 665.12

#### Cylinders:

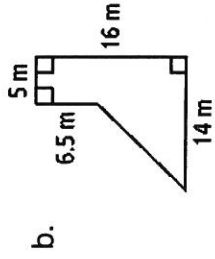
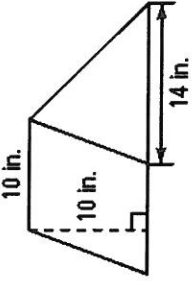
- 1) SA = 402.12; V = 603.18  
 2) SA = 603.18; V = 1130.97  
 3) SA = 169.65; V = 169.65  
 4) SA = 603.18; V = 1005.3  
 5) SA = 376.99; V = 452.38  
 6) SA = 37.69; V = 12.56

Name: \_\_\_\_\_

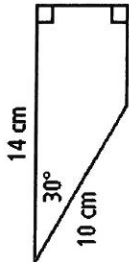
Unit 8 Review

1) Find the areas of the following figures.

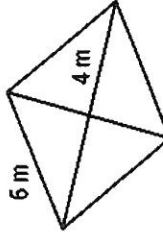
a. (parallelogram and triangle)



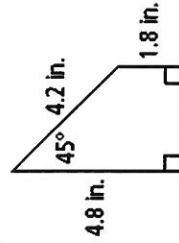
c. (trapezoid)



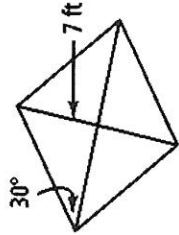
d. (rhombus)



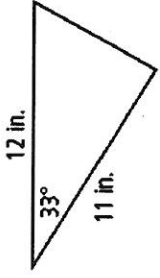
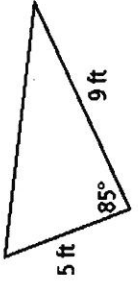
e. (trapezoid)



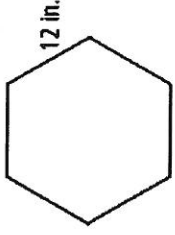
f. (rhombus)



g.

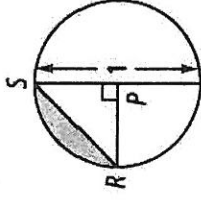


i. Regular hexagon

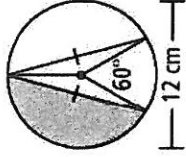


2) Find the area of the shaded region.

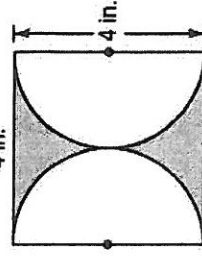
a.



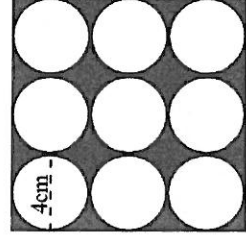
b.



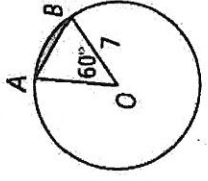
c.

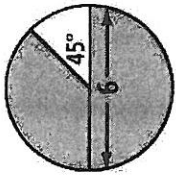


d.

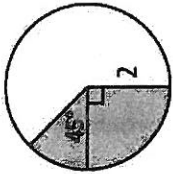


e.

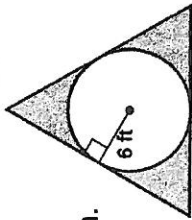




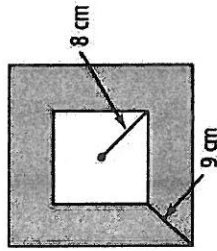
f.



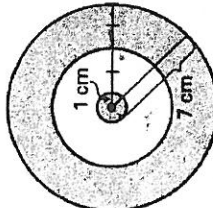
g.



h.



i.

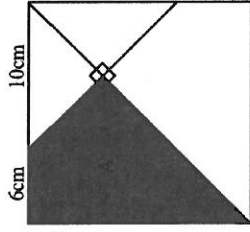


j.

6) The longer base of a right trapezoid is 12 ft. The longer base of a similar right trapezoid is 30 ft. The area of the smaller right trapezoid is  $20 \text{ ft}^2$ . What is the area of the larger right trapezoid?

7) Two similar parallelograms have areas  $125 \text{ m}^2$  and  $80 \text{ m}^2$ . The height of the larger parallelogram is 10 m. What are the sum of the lengths of the bases of both parallelograms?

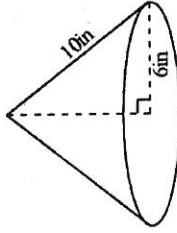
8) Find the area of a triangle with side length 18, 20, 22



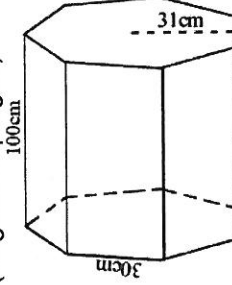
9) Find the shaded area (large figure is a square).

2) Find the surface area of the solids below.

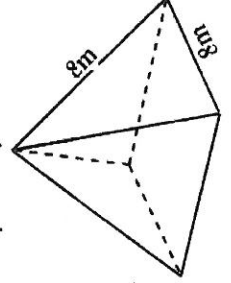
a.



b. (Regular heptagon)



c. Square Pyramid:



3) Your math teacher draws a regular hexagon with a circle circumscribed around it. The radius of the circle is 5 m. To the nearest tenth, what is the area of the hexagon?

4) An equilateral triangle has a perimeter of  $36 \text{ cm}$ . Find its area to the nearest tenth.

5) The perimeter of a square is  $12\sqrt{2}$ . Find the area of the square.

