

Row Game

Person A: _____

Person B: _____

Complete only the problems in your column. Your answer should match your partner's, who is completing the other column. If your answers don't match, work together to find your error.

1) Find the volume of a sphere with radius 3.

1) Find the volume of a cylinder with radius 2 and height 9.

2) Find the surface area of a cylinder with radius 4 and height 6.

2) Find the surface area of a sphere with radius $2\sqrt{5}$

3) Find the diameter of a sphere with $SA = 100\pi$

3) Find the height of a cylinder with radius 3 and $SA = 78\pi$

4) Find the volume of a cone with radius 6 and height 24.

4) Find the volume of a sphere with $SA = 144\pi$

5) Find the ratio of the areas of two similar figures if their shortest sides measure 12 and 8.

5) Find the ratio of the perimeters of two similar figures if the ratio of their areas is 81:16.

6) The area of a triangle is 100, and the area of a smaller, similar triangle is 36. If the perimeter of the larger triangle is 30, find the perimeter of the smaller triangle.

6) The sides of two similar rectangles are in the ratio 5 : 3. Find the area of the smaller rectangle if the area of the larger rectangle is 50.

7) Find the slant height of a square pyramid whose base is 24 by 24 and height is 5.

7) Find the height of a square pyramid with a 4 by 6 base and a volume of 104.

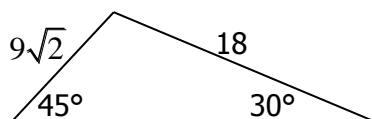
8) Find the height of a cone with radius 9 and volume 297π

8) Find the height of a cylinder with diameter 6 and lateral surface area 66π .

9) Find the diameter of a cylinder with height 5 and lateral surface area 120π

9) Find the height of a square pyramid with a 14 by 14 base and a slant height of 25.

10) Find the area of the triangle to the nearest unit:



10) Find the area of the triangle:

