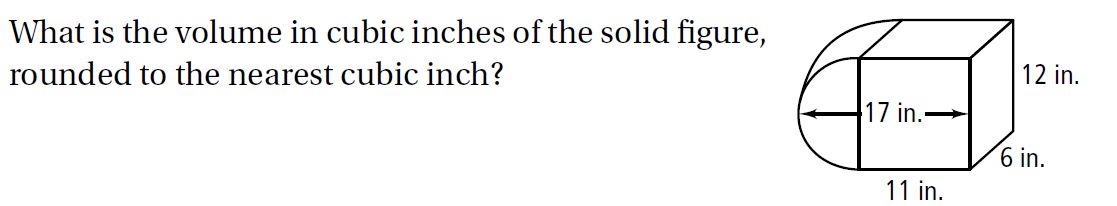
**Secondary Math 2 Unit 12 Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1) | | Find the volume of the solid. The length of the base is , the width of the base is , and the height of the solid is . | | | | http://t0.gstatic.com/images?q=tbn:ANd9GcRgoNKtJ-VAZb9a3dW_2IXCz3PGSFAywtfBocSdzeBaBW640ULb:images.tutorvista.com/cms/images/67/rectangular-prism.png | | | |
| A |  | | B |  | C | |  | D |  |
| 2) | | A jar of peanut butter has a base with a radius of 4 cm and a height of 8 cm. Find the volume. | | | | | | | |
| A |  | | B |  | C | |  | D |  |
| 3) | | Find the volume of the solid. The length of the base is , the width of the base is , and the height of the solid is . | | | | http://t2.gstatic.com/images?q=tbn:ANd9GcQvdxjNsUAODZ0mCe-kmR9bmSUXhloZuX5ogkc70idB61dPFZZg:image.mathcaptain.com/cms/images/67/pyramid2.jpg | | | |
|  | A | | B |  | C | |  | D |  |
| 4) | | Find the volume of the solid. The radius of the base is and the height of the solid is . | | | | http://t1.gstatic.com/images?q=tbn:ANd9GcScl5Ut-lHbK7fSIL3EtchEQOH-PaeDyWwRJLcZzEJZm8vuzTCc:moodle.tbaisd.org/pluginfile.php/68898/mod_book/chapter/51196/cone%2520ex%25202.jpg | | | |
| A |  | | B |  | C | |  | D |  |
| 5) | | Find the volume of the solid. The radius of the sphere is . | | | | http://upload.wikimedia.org/wikipedia/commons/thumb/0/07/Sphere_and_Ball.png/220px-Sphere_and_Ball.png | | | |
| A |  | | B |  | C | |  | D |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6) | | Find the area of the polygon. Assume the measurements are given in miles. | | | | | SM2 Q1.4 Q1.PNG | | |
| A |  | | B |  | C |  | | D |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7) | | SM2 Q1.4 Q1.PNG | | | | | Find the area of the polygon. Assume the measurements are given in inches. | | | | | | | | | |
| A |  | | | B | |  | | | | C |  | | | | D |  |
| 8) | | Find the area of the polygon. Assume the measurements are given in centimeters. | | | | | | | | | | SM2 Q1.4 Q1.PNG | | | | |
| A |  | | B | |  | | | C |  | | | | D |  | | |

9) A rectangular pyramid has a volume of 30 cubic inches. What is one possible set of dimensions for the pyramid?



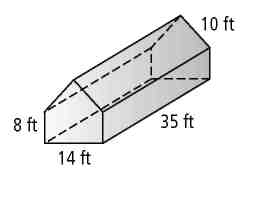
10)

11) Two similar cones have heights 4 m and 12 m.

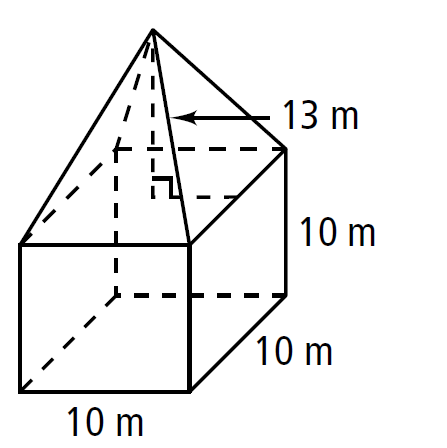
**a.** What is the ratio of their heights?

**b.** What is the ratio of their surface areas?

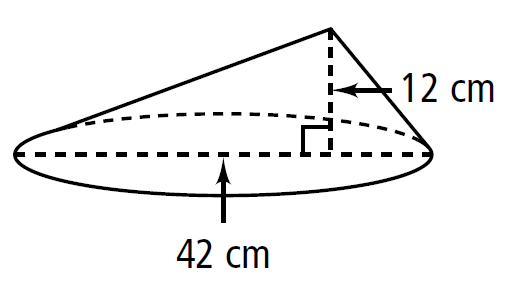
**c.** What is the ratio of their volumes?

12) A greenhouse has the dimensions shown in the figure. What is the volume of the greenhouse? Round to the nearest cubic foot.

13) If you need 3 gallons of paint to cover a wall 10 feet high, how much paint would you need to cover a similar wall that is 15 feet high?

14-15: Find the volume.

14) 15)



16) A milk jug shaped like a cylinder has a base area of 100 cm2 and can hold 1500 cm3 of milk. The height of the juice container is:

|  |
| --- |
| 17) Find the diameter of a soccer ball with a volume of 1436.76 in3 to the nearest inch. |