

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

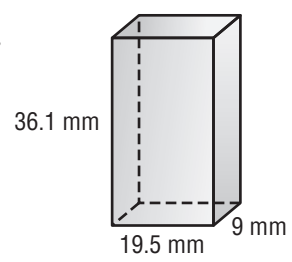
# Test, Form 3B

SCORE \_\_\_\_\_

Find the volume of each figure. **Round to the nearest tenth if necessary.**

this means to one place past the decimal

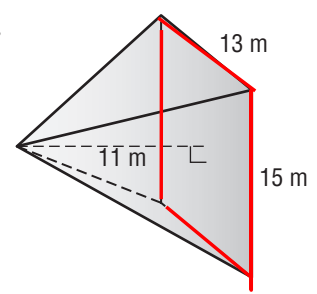
1.



$36.1 \times 19.5 \times 9$        $v = l \times w \times h$

1.  $v = 6335.55$  cubic

2.



rectangular pyramid

$l \times w \times h / 3$   
 $13 \times 15 \times 11 / 3 =$

6335.6 cubic millimetres  
 Or 6335.6 cu mm

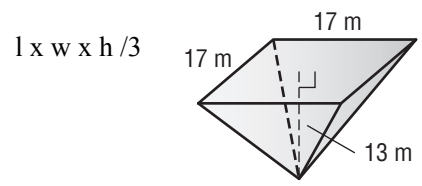
2.  $v = 715$  cubic

3. A storage shed with a flat roof is 4 yards long by 3 yards wide by  $1\frac{1}{2}$  yards tall. A cubic yard is equal to 27 cubic feet. How many cubic feet of storage space does the shed enclose?

$(4 \times 3 \times 1.5) \times 27$

3.  $v = 486$  cubic yard

4. Find the volume of the square pyramid.



$17 \times 17 \times 13 / 3$

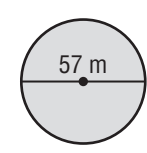
4.  $v = 1252.33$  cubic m

5. What is the circumference of a Ferris wheel with a radius of 22.5 ft? Use 3.14 for  $\pi$ . Round to the nearest tenth.

$c = 2 \times 3.14 \times 22.5$

5.  $v = 141.3$  ft

6. Find the area of the circle. Use 3.14 for  $\pi$ . Round to the nearest tenth.



$3.14 \times 28.5 \times 28.5$

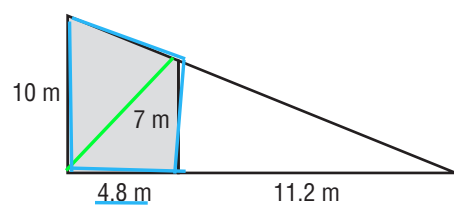
6.  $v = 2550.456$  sq m

exponent of 2

7. Find the area of the shaded region.

$b \times h / 2$

$10 \times 4.8 / 2 = 24$



$4.8 \times 7m / 2 = 16.8$

7.  $v = 40.8m$

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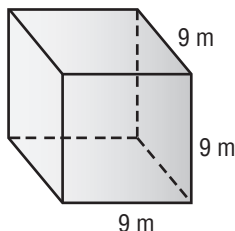
# Test, Form 3B (continued)

SCORE \_\_\_\_\_

8. Find the surface area of the cube.

$$9 \times 9 \times 6$$

exponent of 2

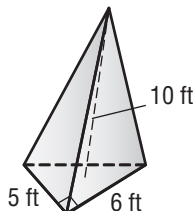


8.  $A = 486 \text{ sq m}$

9. Find the volume of the pyramid.

$$b \times h / 2 \times (h) / 3$$

$$5 \times 6 \times 10 / 3$$



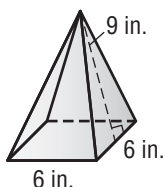
9.  $100 \text{ cubic ft}$

10. Find the surface area of the pyramid.

$$6 \times 9 / 2 = 27$$

$$6 \times 9 / 2 = 27$$

$$6 \times 9 / 2 \times 3 = 81$$



10.  $SA = 162 \text{ sq in}$

11. Find the volume of the composite figure.

$$18 \times 18 \times 40 = 12960$$

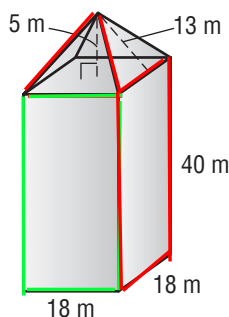
$$v = l \times w \times h$$

$$V = (l \times w \times h)$$

$$18 \times 5 \times 5 / 3 = 150$$



$$l \times w$$



$v = 13110 \text{ cubic m}$

12. Find the surface area of the composite figure in Exercise 11.

$$18 \times 40 \times 4 = 2880$$

$$18 \times 5 / 2 \times 4 = 180$$

12.  $SA: 3060 \text{ sq m}$

13. A freezer is shaped like a rectangular prism. It has a length of 8 feet and a height of 3 feet. The volume is 54 cubic feet. Find the width of the freezer.

$$l \times w \times h$$

$$8 \times 3 \times 6$$

$$144 + 198 =$$

13.  $v = 342 \text{ cubic ft}$

14. A rectangular pyramid has a volume of 210 cubic centimeters. Find two possible sets of measurements for the base area and height of the pyramid.

$$5 \times 7 \times 43 / 3 = 210 \text{ cubic cm}$$

$$(10 \times 7 \times 9 = 630)$$

14. idk this one is hard

$$v = (l \times w \times h) / 3$$