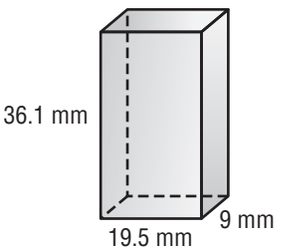
NAME KBZOOM DATE _____ PERIOD _____

Test, Form 3B

SCORE _____

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

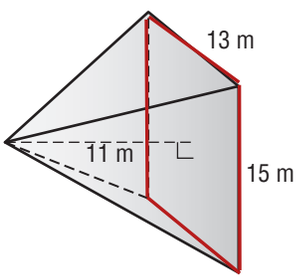
1.



36.1 x 19.5 x 9 =

1. V = cubic 6335.55

2.



13 x 15 x 11 / 3

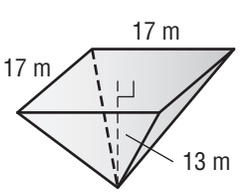
2. V = cubic 715

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 x 3 x 1.5) x 27

3. 486 cubic yard

4. Find the volume of the square pyramid.



17 x 17 x 13 / 3

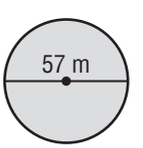
4. V = 1252.33 cubic m

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

C = 2 x 3.14 x 22.5

5. C = 141.3 ft

6. Find the area of the circle. Use 3.14 for π. Round to the nearest tenth.



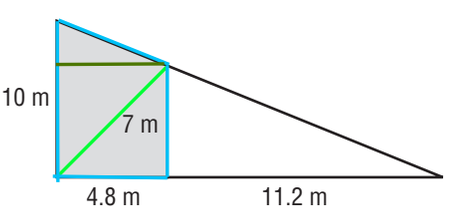
expo of 2 A = 3.14 x 28.5 x 28.5

6. C = 2550.465 sq m

7. Find the area of the shaded region.

b x h / 2 10 x 4.8 / 2 = 24

4.8 x 7 / 2 = 16.8



7. A = 40.8 sq m

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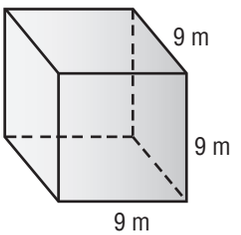
Test, Form 3B *(continued)*

8. Find the surface area of the cube.

9 x 9 x 6

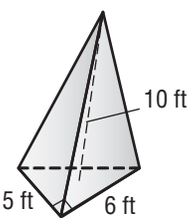


expo of 2

8. A = 486 sq m

9. Find the volume of the pyramid.

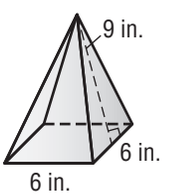
5 x 6 x 10 / 3



9. 100 cubic ft

10. Find the surface area of the pyramid.

6 x 9 / 2 = 27
6 x 9 / 2 = 27
6 x 9 / 2 x 3 = 81
6 x 9 / 2 = 27

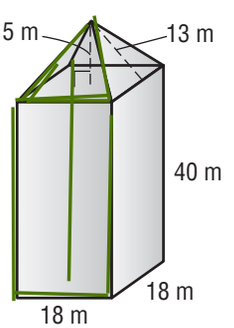


10. SA: 162 sq in

11. Find the volume of the composite figure.

18 x 18 x 40 = 12960

18 x 5 x 5 / 3 = 150



11. V = 13110 cubic m

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

18 x 5 / 2 x 4 = 180

18 x 40 x 4 = 2880

12. SA: 3060 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.

144 + 54 = 198

8 x 3 x 6

13. 198 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.

l x w x h / 3 = 210 cubic cm

l x w x h = 630

14. 315 cubic cm