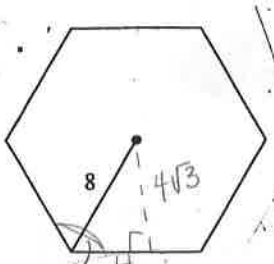
Geometry ~ Unit 5 Study Guide

Name: Key

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

1.



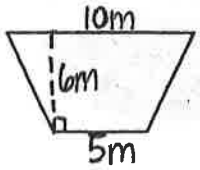
$\frac{(n-2)180}{n}$

$A = \frac{1}{2}Pa$

60

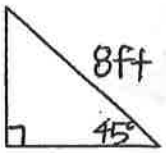
166.3 u^2

2.



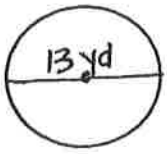
45 m^2

3.



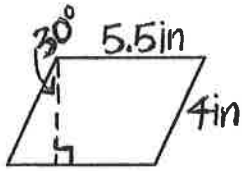
16 ft^2

4.



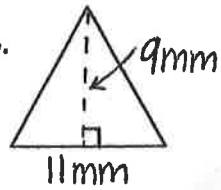
132.7 yd^2

5.



19.1 in^2

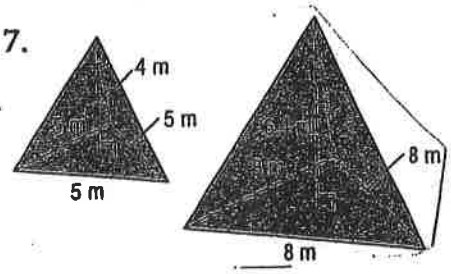
6.



49.5 mm^2

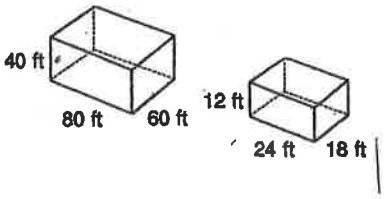
Determine whether each pair of solids are similar, congruent or neither.

7.



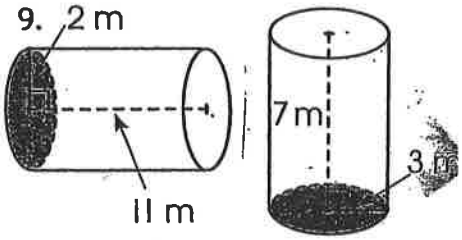
Similar

8.



Similar

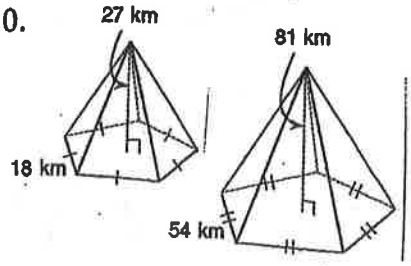
9.



neither

Find the similarity, surface area and volume ratios for each pair of figures.

10.

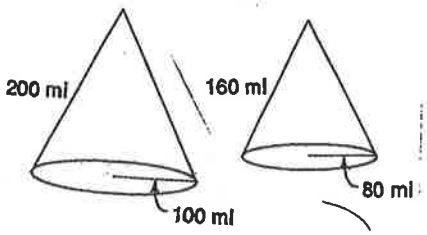


Similarity 1:3

Surface area 1:9

Volume 1:27

11.

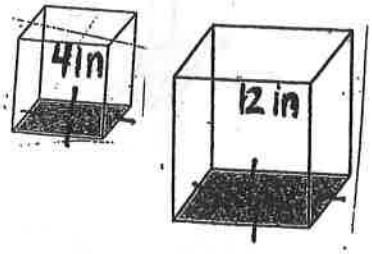


4:5

16:25

64:125

12.



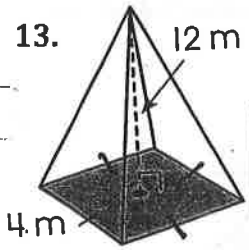
1:3

1:9

1:27

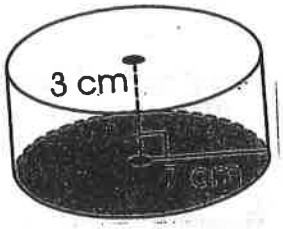
Find the volume of each solid. Round to the nearest tenth if necessary.

13.



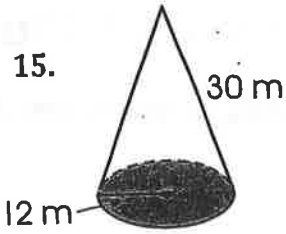
$64 m^3$

14.



$461.8 cm^3$

15.



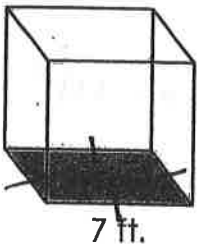
$4146.9 m^3$

16.

C = 18mm

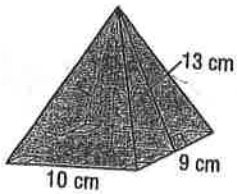
$98.5 mm^3$

17.



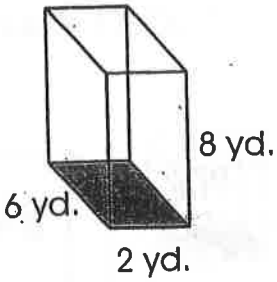
$343 ft^3$

18.



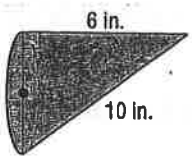
$360 cm^3$

19.



$96 yd^3$

20.

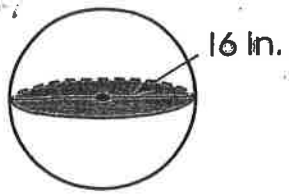


$100.5 in^3$

21.

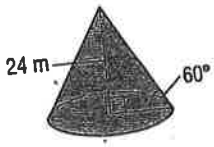
$1526.8 in^3$

22.



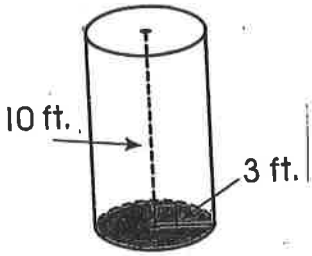
$2144.7 in^3$

23.



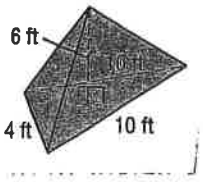
$4825.5 m^3$

24.



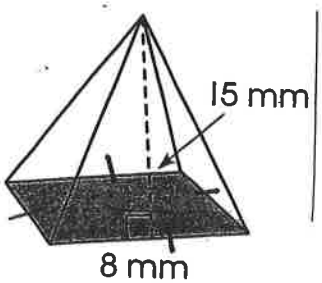
$2826.7 ft^3$

25.



$39.2 ft^3$

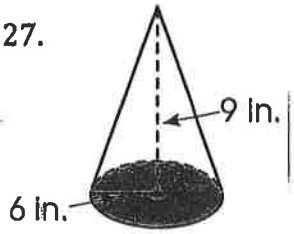
26.



mm^3

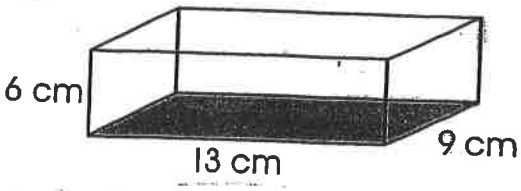
320

27.



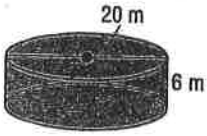
$339.3 in^3$

28.



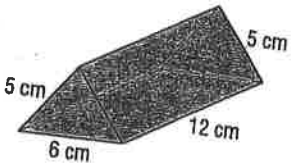
$702 cm^3$

29.



$1885.0 m^3$

30.



$144 cm^3$