You will attach Ch. 11 Calendar to this page!

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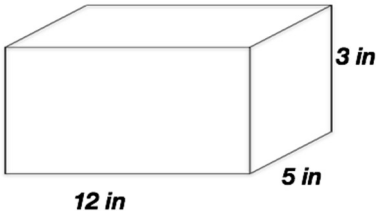
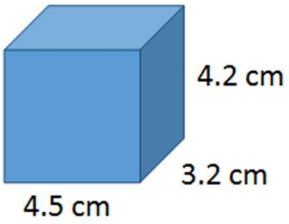
11.1 Worksheet: Show your work! Name _____

For #1 – 9, find the volume of each prism or cylinder.

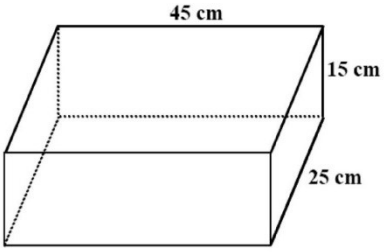
1)



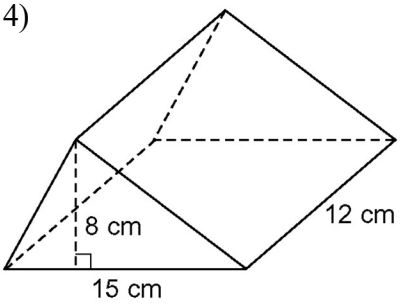
2) Round to one decimal place.



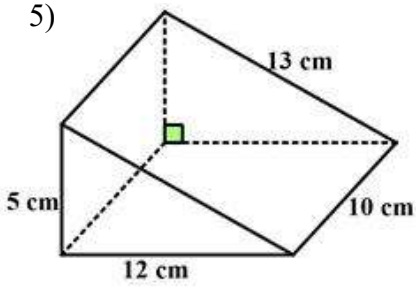
3)



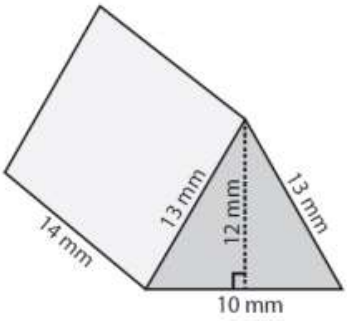
4)



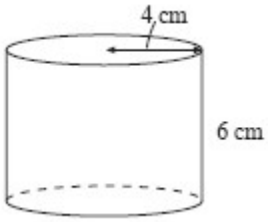
5)



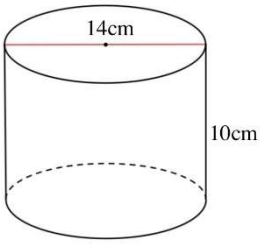
6)



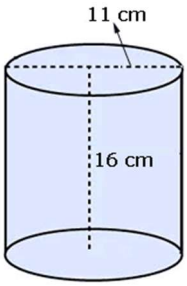
7) in terms of pi



8) in terms of pi



9) round to one decimal place



10) A rectangular prism has volume of 400 m^3. If the length of the prism is 10 m and the width of the prism is 15 m, then what is the height of the prism? If needed, round to one decimal place.

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11) A soup can, shaped like a cylinder, has a volume of 520 mm^3. If the height of the soup can is 20 mm, then what is the radius of the soup can?

12) A triangle has two known sides with lengths of 10 cm and 12 cm. Which of the following lengths below could be the 3rd side? Choose all that apply.

A) 20 cm B) 2 cm C) 3 cm D) 21 cm E) 24 cm

13) ΔABC has coordinates $A(-2,4), B(3,-1)$, and $C(1,5)$. If ΔABC is dilated about the origin with a scale factor of 5, then what are the coordinates of A'?

14) Multiple choice: Given that $\Delta WXY \sim \Delta HFG$, then which proportion below is true?

A) $\frac{WX}{HF} = \frac{WY}{HG}$ B) $\frac{XY}{FG} = \frac{WX}{HG}$ C) $\frac{WY}{FG} = \frac{WX}{HG}$

15) A circle has area of 36π inches. What is its circumference, in terms of pi?

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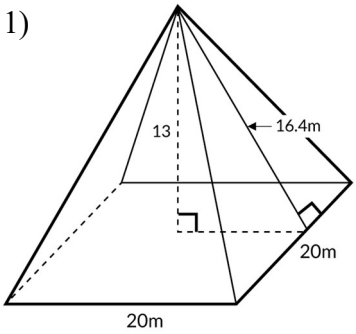
11.2 Worksheet: Show your work!

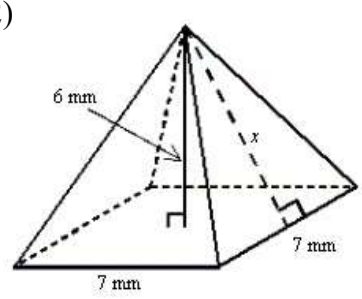
Name _____

For #1 – 9, find the volume of each square pyramid or cone.

1)



2)



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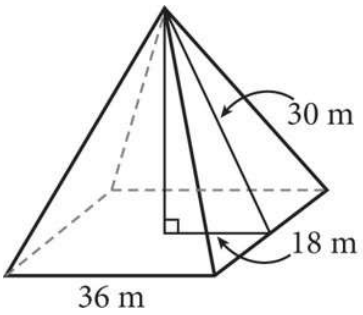
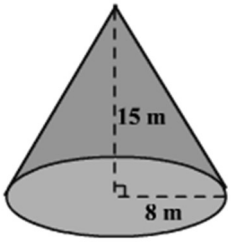
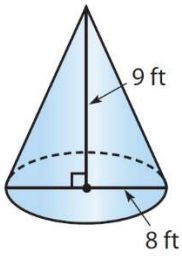


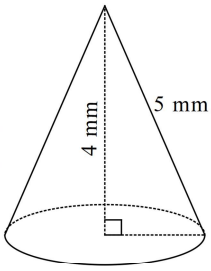
4) in terms of pi



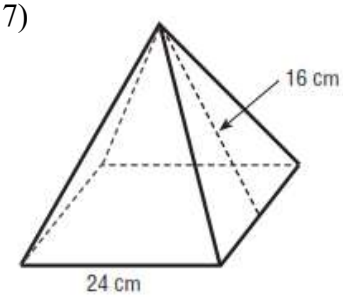
5) in terms of pi (diameter = 8 ft)



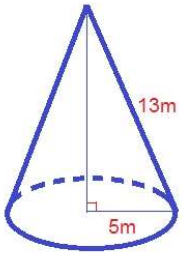
6) in terms of pi



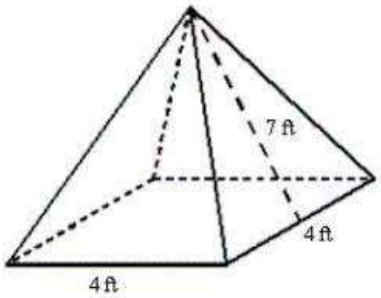
7)



8) Round to one decimal place.



9) Use $a^2 + b^2 = c^2$ to find h.



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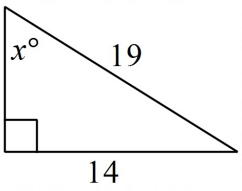
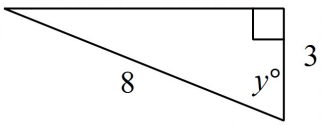
10) A cone has a volume of $20\pi\ in^3$. If the radius of the cone is 3 in, then find the height to one decimal place.

For #11 – 13, find each missing angle. Hint: use Soh-Cah-Toa.

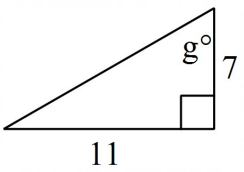
11)



12)

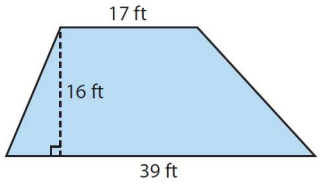


13)

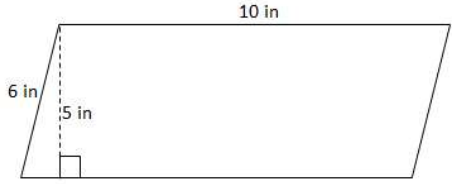


For #14 – 15, find the area of each shape.

14) trapezoid $A = \frac{1}{2}h(b_1 + b_2)$



15) parallelogram $A = bh$



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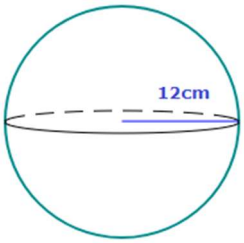
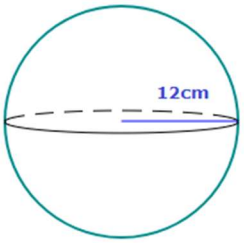
11.3 Worksheet: Show your work! **Name** _____

For #1 – 6, use each sphere shown to find the requested value.

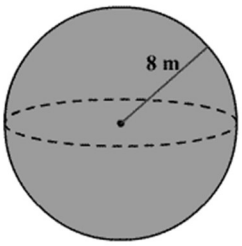
1) Surface Area (in terms of pi)



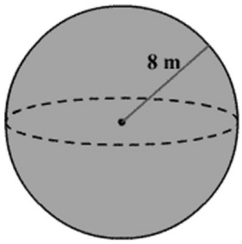
2) Volume (in terms of pi)



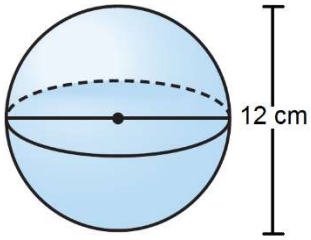
3) Surface area (round to 2 decimal places)



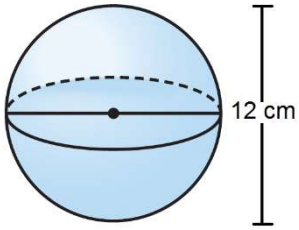
4) Volume (round to 2 decimal places)



5) Volume (in terms of pi)



6) Surface Area (in terms of pi)



For #7 – 8: A cube has a side length of 5 inches.

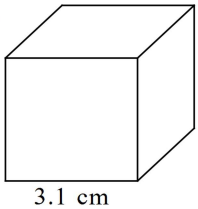
7) Find the surface area.

8) Find the volume.

For #9 – 10: Given the cube shown to the right.

9) Find the surface area (to one decimal place.)

10) Find the volume (to one decimal place.)



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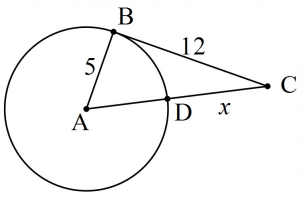
For #11 – 12: A cube has surface area of 96 in^2.

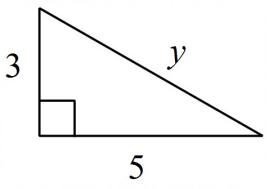
11) Find the length of one side of the cube.

12) Find the volume of the cube.

13) Find DC (x) in the diagram below.



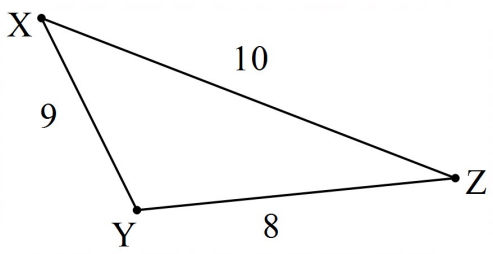
14) Find y. Write your answer as a simplified radical.



For #15 – 16, use the diagram shown of ΔXYZ.

15) Which is the largest angle?

16) Which is the smallest angle?



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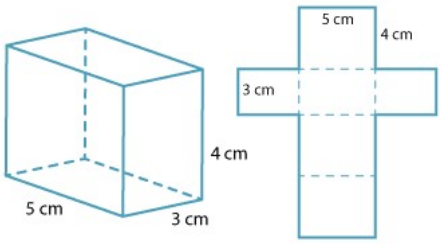
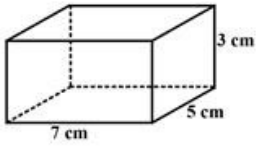
11.4 Worksheet: Show your work! Name _____

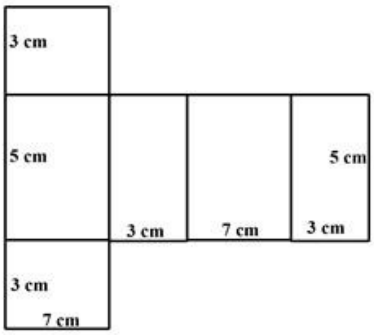
For #1 – 2, find the surface area of each prism by using its net.

1)



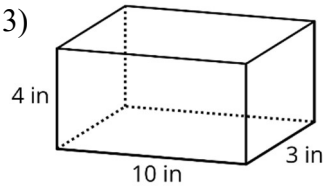
2)



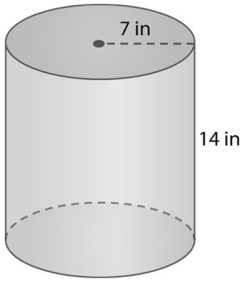


For #3 – 6, find the surface area of each rectangular prism or cylinder.

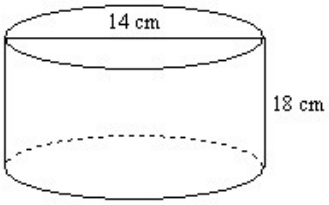
3)



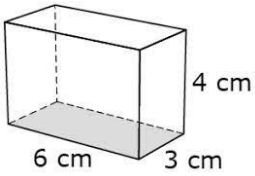
4) in terms of pi



5) in terms of pi

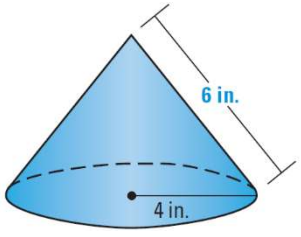


6)

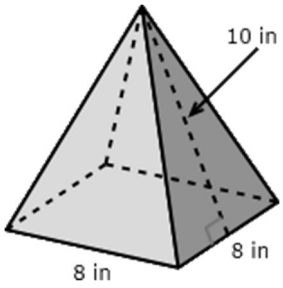


For #7 – 8, find the surface area of each cone or square pyramid.

7) in terms of pi



8)



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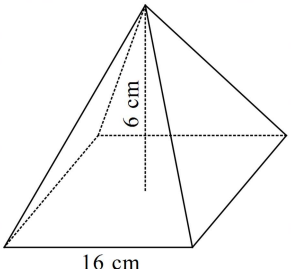
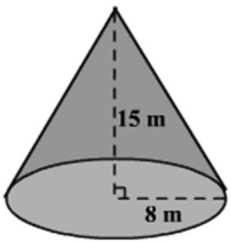
For #9 – 10, find the surface area of each cone or square.

9)



10) rounded to one decimal place



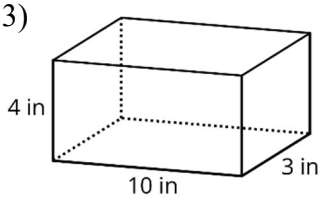
For #11 – 12, a sphere has a radius of 10 cm.

11) Find the surface area, rounded to one decimal place.

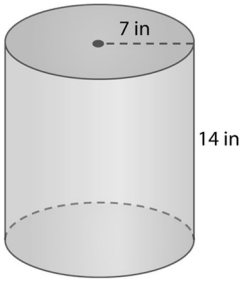
12) Find the volume, rounded to one decimal place.

For #13 – 16, find the VOLUME of each shape. (Hint: use formulas from 11.1 and 11.2.)

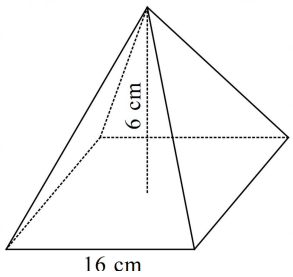
13)



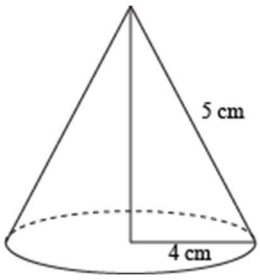
14) in terms of pi



15)

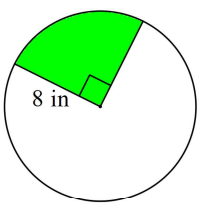


16) in terms of pi

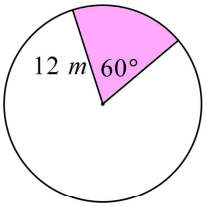


For #17 - 18, find the *exact* area of each shaded sector, *in terms of pi*. No decimal answers.

17)



18)



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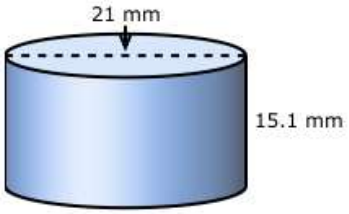
Ch. 11 Review Worksheet (HOMEWORK): **Name** _____

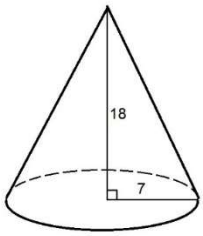
*This review has **3 pages**, don't forget to do the last page!*

For #1 – 9, find the volume of each shape.

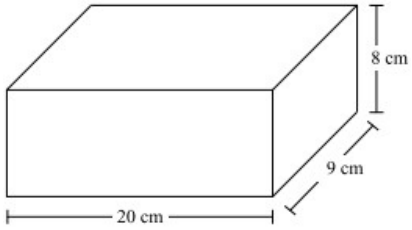
1) rounded to one decimal place



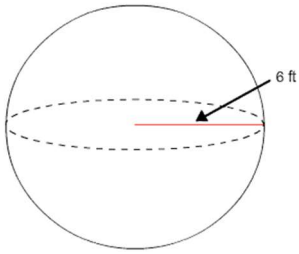
2) in terms of pi



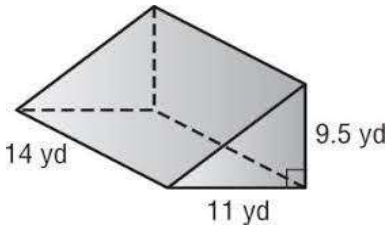
3)



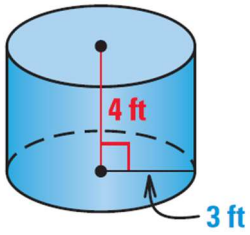
4) in terms of pi



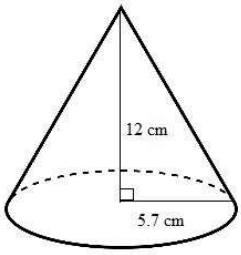
5) rounded to one decimal place



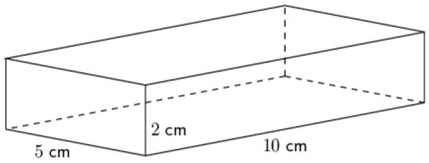
6) in terms of pi



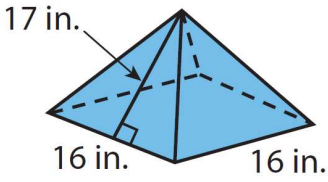
7) rounded to one decimal place



8)



9) the base is a square



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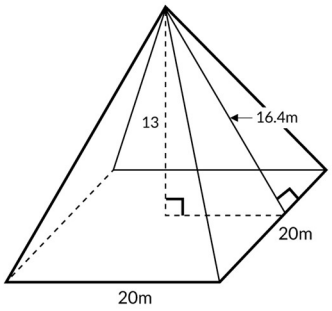
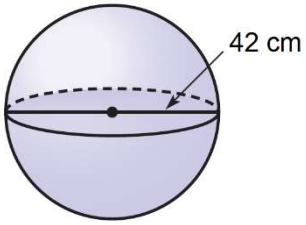
For #10 – 12, find the volume of each shape.

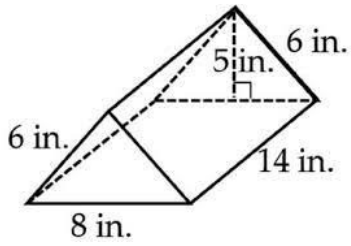
10) The base is square, rounded to one decimal place



11) rounded to one decimal place



12)

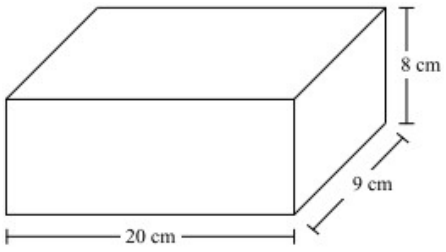


13) Find the surface area of a sphere with a radius of 5 inches. Write your answer in terms of pi.

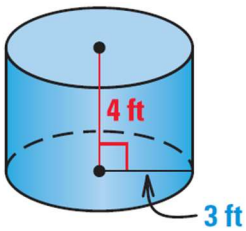
14) A sphere has a surface area of $36\pi\ in^3$. Find the radius of the sphere.

For #15 – 18, find the surface area of each shape.

15)



16) in terms of pi



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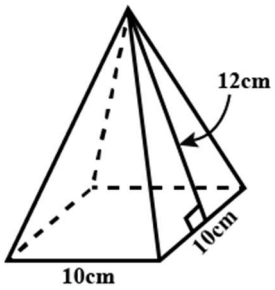
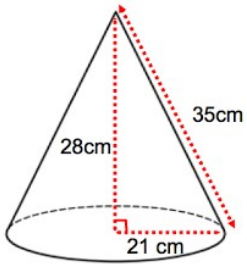
17) the base is a square



18) in terms of pi



For #19 – 20: A cube has surface area of 100 m^2.

19) Find the length of one side of the cube.

20) Find the volume of the cube.

21) A rectangular prism has volume of 340 cm^3. If the length of the prism is 8 cm and the height of the prism is 13 cm, then find the width of the prism. Round to one decimal place, if needed.

22) A cylinder has a volume of $48\pi\ ft^3$. If the radius of the cylinder is 4 ft, then find the height of the cylinder.

23) A cylinder has volume of $50\pi\ in^3$. If the height of the cylinder is 2 in, then find the radius of the cylinder.

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End of Ch. 10 Homework

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