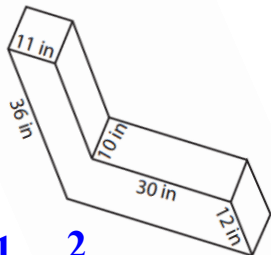


Weekly 13.5 Geometry

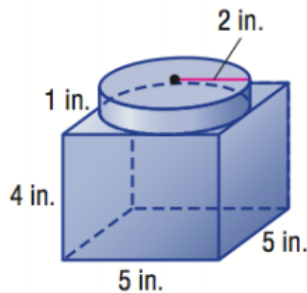
Name _____

MONDAY

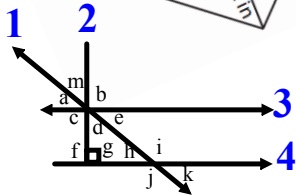
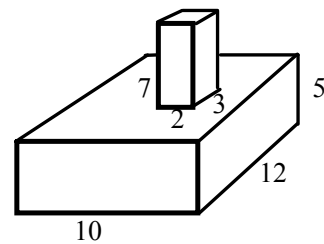
1. Surface Area = _____
Volume = _____



2. Volume = _____



3. Surface Area = _____
Volume = _____



4. Angle _____ is vertical to angle i. Angle _____ is adjacent and complementary to angle d. Angles d, g, and h add up to be _____ degrees. What is the measure of angle f? _____ If the measure of angle i is 152° , then the measure of angle d is _____. Angle _____ is vertical to angle d. This makes these two angles _____.

5. If you cut a triangular prism perpendicular to the base you will get a _____. If you slice a cylinder parallel to the base you will get a _____. If you cut a pentagonal pyramid parallel to the base you will get a _____. If you cut a square pyramid perpendicular to the base through the apex you will get a _____.

6. A circle has a diameter of 25 u.
radius = _____
circumference = _____
area = _____

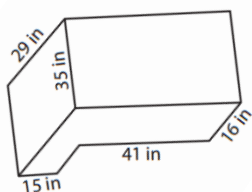
7. perimeter = _____
area = _____

8. A triangle has a base of 28 and an area of 434 square units.
Find the height of the triangle. _____

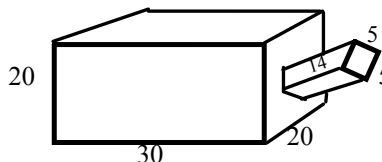
9. perimeter = _____
area = _____

TUESDAY

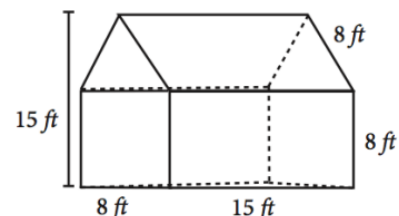
1. Surface Area = _____
Volume = _____



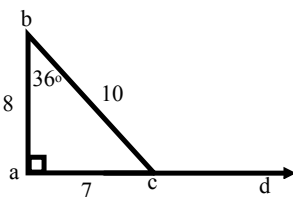
2. Surface Area = _____
Volume = _____



3. Surface Area = _____
Volume = _____



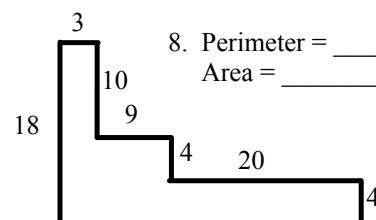
4. Area = _____
Perimeter = _____
m $\angle acb$ = _____
m $\angle bcd$ = _____



5. Find the area _____ of a rectangle with a base of 18 and a height of 10. Find the changed base _____, height _____, and area _____ after a scale factor change of 3:2.

6. How many 20 inch wide chairs could you position in a circle with a radius of 9 feet? _____

7. How many $\frac{1}{2}$ inch by $\frac{1}{2}$ inch cubes could you fit into a rectangular prism that is 8 inches by 14 inches by 4 inches? _____



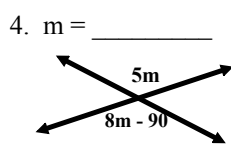
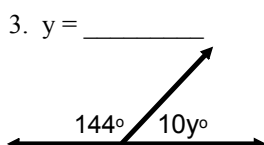
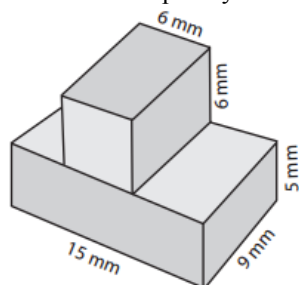
8. Perimeter = _____
Area = _____

9. The circumference of a circle is 72.22 units.
Find the...
radius _____
diameter _____
area _____

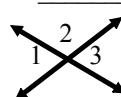
10. If you cut a triangular pyramid perpendicular to its base but not through the apex you will get a _____. If you cut a sphere you will always get a _____. If you cut a triangular prism parallel to the base you will get a _____.

WEDNESDAY

1. The below box was placed under a leaky sink that leaked at a rate of 20 mm^3 every 3 hours. How long would it take to completely fill the box? _____



5. If angle 1 measures 27° , find the measure of angle 2 _____ and 3 _____



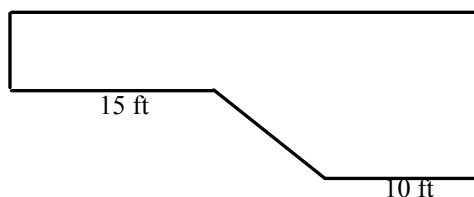
6. The sum of the interior angles of every triangle is _____.

The sum of the interior angles of every quadrilateral is _____.

7. The below view is a side view of a pool that is 18 feet wide. The pool is 5 foot deep but then slopes down to a depth of 9 feet. If the hose used to fill the pool fills at a rate of 30 cubic feet per hour, how long will it take to fill the pool?

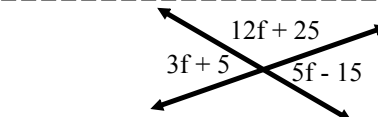
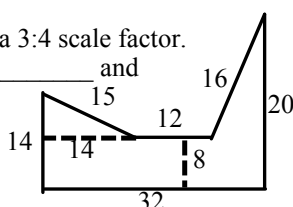
30 ft

Volume = _____
Time to fill = _____



THURSDAY

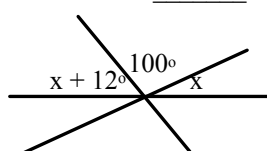
1. Change the measurements using a 3:4 scale factor. Then find the perimeter _____ and area _____.



2. Write 2 equations that will help you solve for f .
Equation 1 _____
Equation 2 _____
 $f =$ _____

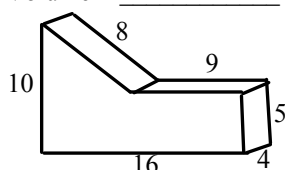
3.
 $R =$ _____
 $D =$ _____
 $C =$ _____
 $A =$ _____

4. Solve for x . _____



5. Find the volume of a cube with a side measuring $\frac{3}{4}$ units _____.

6. Surface Area = _____
Volume = _____



7. Go online. Search for Emaths toolbox. Construct a 25° , 75° , 80° triangle and a 8, 3, 6 triangle.

Will 5, 2, 3 make a triangle? _____
Will 10, 18, 9 make a triangle? _____

8. Write the formulas. Try it from memory without your notes.

AREA of...

triangle _____

parallelogram _____

circle _____

CIRCUMFERENCE _____

VOLUME (prisms, cylinders) _____