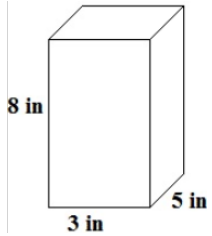


Question #1:



- If the right rectangular prism shown below was sliced horizontally (parallel to the base), what shape would BEST describe the resulting two-dimensional shape?
- Find the volume.
- Find the surface area.

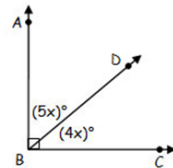
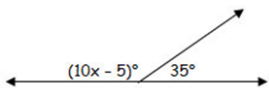
Question #2:

Kevin is planting vegetables in his garden. The garden is in the shape of a circle with a diameter of 14 feet.

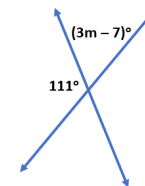
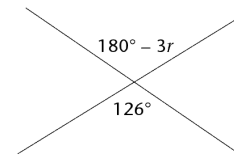


- Find the area of the garden.
- Find the circumference of the garden.

Question #3: (Name the angle AND solve for the variable)

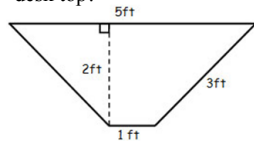


Question #4: (Name the angle AND solve for the variable)



### Question #5:

- a. Jason is building a desk for his bedroom. He wants the desk to fit in the corner of his room and decides to go with a trapezoid design. If Jason uses the dimensions shown in the picture below, how many square feet of plywood will he need to build the desk top?



- b. Natalie recently bought a jewelry box, but she wants to re-cover the box with a more colorful fabric. If the jewelry box is a cube with sides 8 cm long, how much fabric will Natalie need in order to cover all sides of the box?



### Question #6:

- a. How long will Lucy have to wait before for \$2500 invested at 6% earns \$600 in simple interest?
- b. You borrow \$150 dollars from your parents. They give you 2 years to pay them back and they charge a 3% simple interest. How much money will you pay in interest by the end of the 2 years?
- c. Cameron borrowed \$780 for 4 years and had to pay back \$951.60 in simple interest. What percent of interest was he charged?

### Question #7:

- a. 97 is 54% of what number?
- b. What number is 43% of 220?
- c. 68 is what percent of 79?

### Question #8:

- a. A laptop costs \$899. There is a discount for 15% off and there is 6.85% tax. How much will you pay for the laptop with the discount and tax?
- b. A Nintendo Switch is on sale for \$254.15 this is 85% of the original price. What is the original price?

Question #9: 12, 4, 15, 4, 8, 12, 5, 7, 1, 22

- a. What is the mean?
- b. What is the median?
- c. What is the mode?

Question #10:

Sarah needs to make a cake and some cookies. The cake requires  $\frac{3}{8}$  cup of sugar and the cookies require  $\frac{3}{5}$  cup of sugar. Sarah has  $\frac{15}{16}$  cups of sugar. Does she have enough sugar?

At a company party,  $\frac{1}{2}$  in attendance are employees. Employees' spouses are  $\frac{1}{3}$  of the attendance. What is the percentage of the people in attendance who are not employees or employee spouses?

Question #11:

Find the best price per ounce.

Cereal Prices	
Brand	Price
Cinnamon Toast Crunch	\$2.98 for 12.2 ounces
Lucky Charms	\$3.90 for 15 ounces
Corn Pops	\$1.90 for 10 ounces
Froot Loops	\$2.99 for 13 ounces