

6.) Divide 84 by 400.

- (A) 0.21
- (B) 0.84
- (C) 2.1
- (D) 8.4

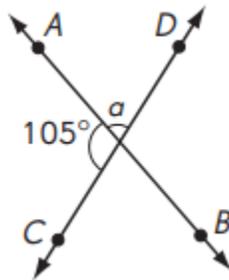
7.) What percent of the figure is shaded?



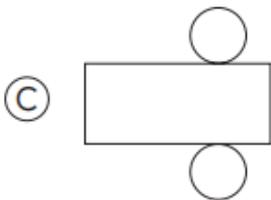
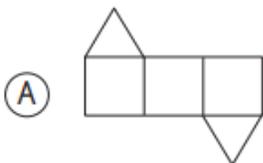
- (A) 25%
- (B) 35%
- (C) 40%
- (D) 50%

8.) \overleftrightarrow{AB} and \overleftrightarrow{CD} are lines. Find the measure of $\angle a$.
(*A straight line has a total of 180 degrees)

- (A) 180°
- (B) 105°
- (C) 75°
- (D) 57°

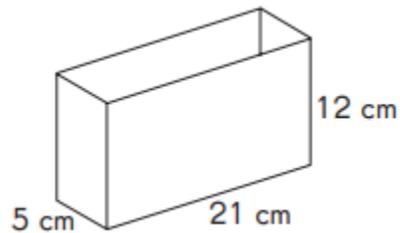


9.) Which of these nets can form a triangular pyramid?



10.) How many 1 cm cubes can be put in the box?

- (A) 38
- (B) 1,200
- (C) 1,260
- (D) 1,620



11.) What is 0.625×400 ?

- (A) 1000
- (B) 250
- (C) 100
- (D) 25

12.) Find 3.8×10^3

- (A) 380
- (B) 3,800
- (C) 38,000
- (D) 380,000

13.) Solve $30 - \{18 - [12 \div (20 - 14)]\} =$

**Remember to work your way out- start with the innermost parentheses*

- (A) 14
- (B) 10
- (C) 56
- (D) 6

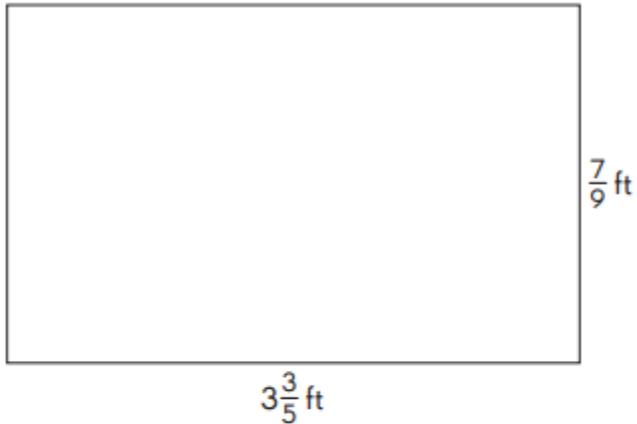
14.) Which is $12 \div \frac{1}{4}$?

- (A) 3
- (B) $12\frac{1}{4}$
- (C) $11\frac{3}{4}$
- (D) 48

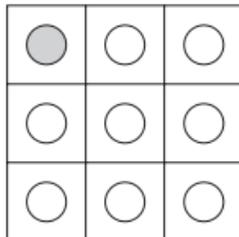
Short Answer

Read the questions carefully. Write your answers in the spaces provided.
Show your work.

15.) Find the area of the rectangle below.



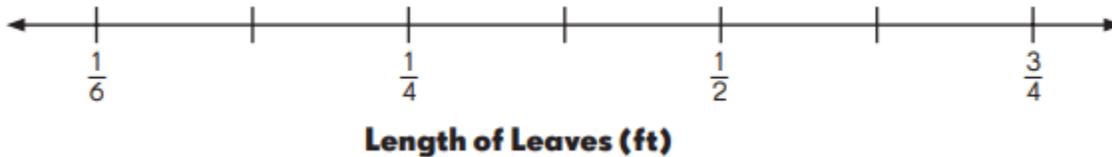
16.) In the figure below, how many more circles must be shaded so that the fraction of shaded circles is $\frac{2}{3}$ of the total number of circles?



Use the data below to answer questions 17 and 18.

Length (ft)	$\frac{1}{6}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Number of Leaves	2	5	7	7

17.) Make a line plot to show the data in the table.



18.) Use the data to answer the following:

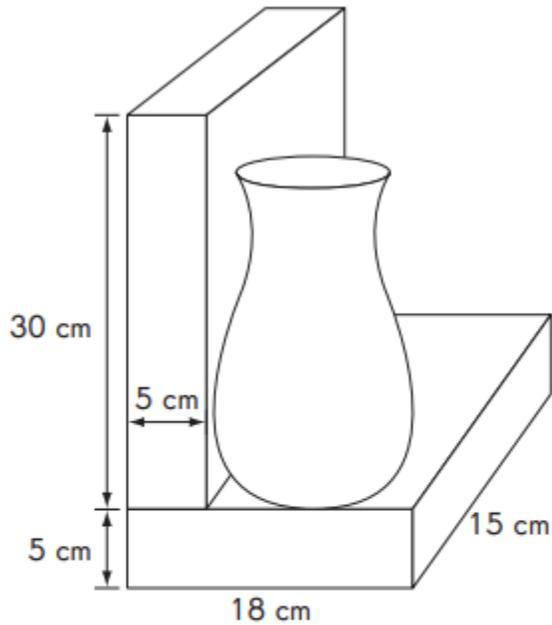
a.) What is the difference between the longest leaf and the shortest leaf?

b.) How many more of the long leaves are there than the short leaves?

19.) A rectangular tank has a height of 18 centimeters. The area of its base is 225 square centimeters. Find the volume of the tank.

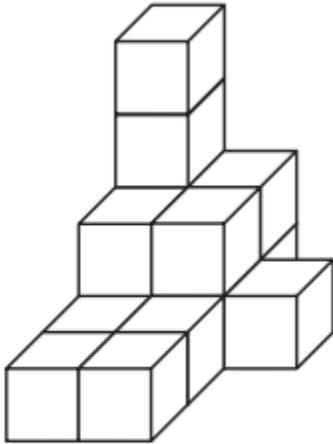
**Remember that the area of the base is $L \times W$*

20.) Two pieces of foam are placed in a box to protect the sides of a vase, as shown in the diagram below. Find the volume of the two pieces of foam.

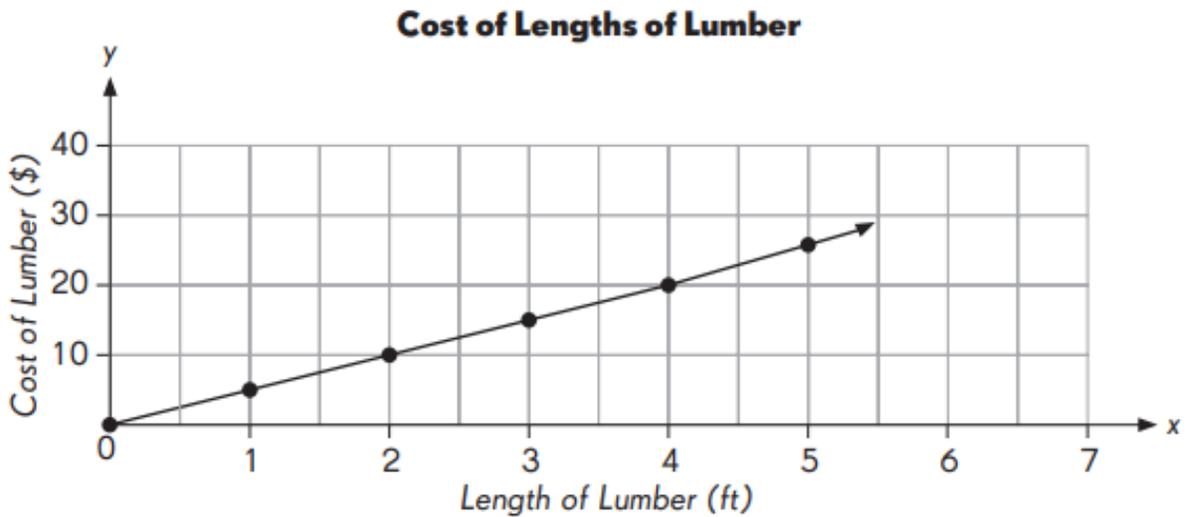


21.) Abe, Belle, and Cathy have a total of \$179.50. Abe has \$9 more than Belle. Cathy has three times as much as Abe. How much money does Belle have?

22.) What is the volume of the solid below, made up of 1-inch cubes?
Remember- some of the cubes may be hidden.



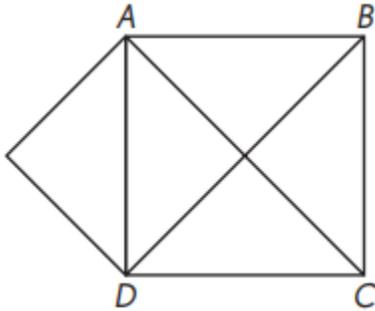
23.) Use the data in the graph below to answer the questions. The graph $y = 5x$ shows the cost of the different lengths of lumber.



a. What is the cost of a piece of lumber 7 feet long?

b. What would be the length of a piece of lumber costing \$50?

24.) The figure below is made up of five identical triangles. The perimeter of the square ABCD is 248 inches. Find the area of the whole figure.



25.) Write 12 ones and 3 tenths 2 hundredths 5 thousandths in expanded form.

26.) What is the value of B in the equation?

$$9.42 = 9,420 \div B$$

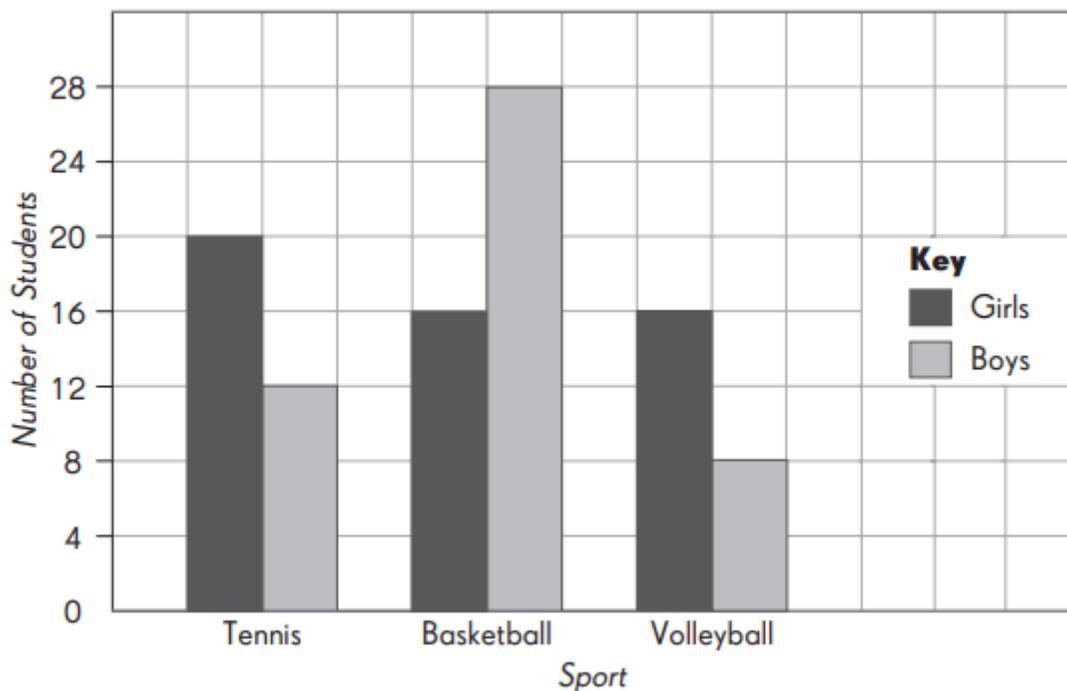
27.) Order the decimals from least to greatest.

11.05, 11.00, 11.10, 11.009

28.) $\frac{3}{8}$ of the regular price of a digital watch is \$21. The price of the digital watch after discount is \$21. Find the dollar amount of the discount.

Use the data in the bar graph to answer questions 29 and 30.

Favorite Sports of Students

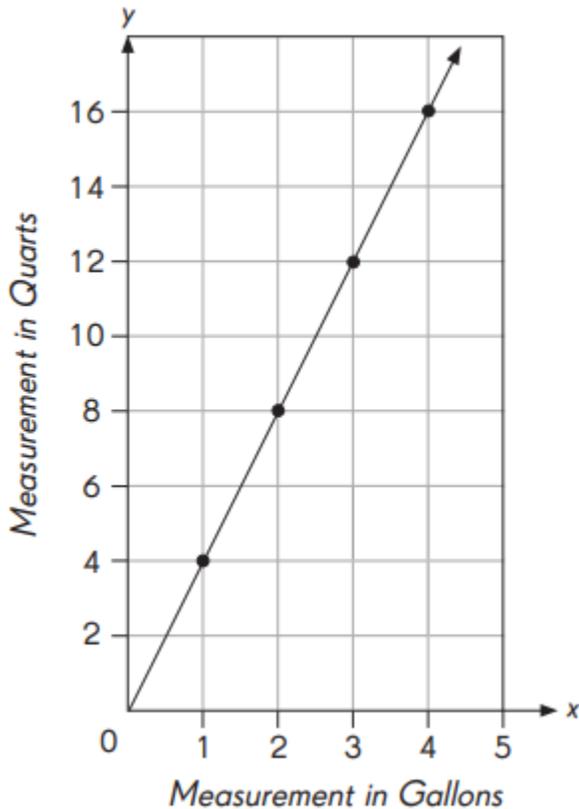


29.) For which sport is the number between the number of boys and the girls the greatest?

30.) How many more girls than boys prefer tennis?

Use the data in the graph to answer questions 31.

Conversion Between Gallons and Quarts

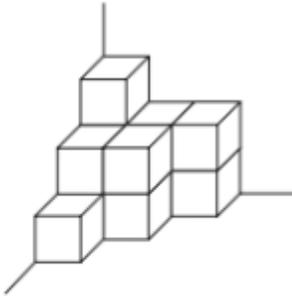


31.) Mrs. Richards buys 8 quarts of milk in 4 days. How many gallons of milk does she buy?

32.) Mrs. Mani has 1 orange, 1 apple, 1 peach, and one apricot. She has 3 different flavored yogurt bars. She packs one fruit and one yogurt bar into a lunch box. Find the number of combinations she can pack in one lunch box.

33.) Brian has \$50. He buys 10 copies of a book and has X dollars left. What is the cost of each book?

34.) How many unit cubes are used to build the solid?



35.)

Express $3\frac{1}{5} + 2\frac{1}{20}$ as a decimal.

Extended Response

Solve. Show your work.

36.) There are 450 seats in a theater. 48% of the seats are occupied. How many seats are not occupied?

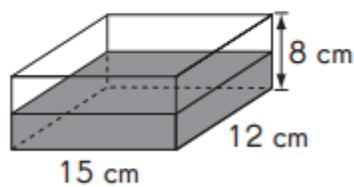
37.) Mr. Woo buys 20 kilograms of rice at \$0.84 per kilogram. He buys 700 grams of shrimp at \$1.02 per 100 grams. How much does he spend in total?

38.)

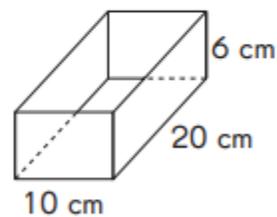
Mrs. Jackson has \$90. She spends $\frac{1}{4}$ of her money on food, $\frac{1}{2}$ of the remainder on clothes and saves the rest. How much does she save?

39.)

An equal amount of water is poured into two empty tanks, P and Q. Tank P is then $\frac{1}{2}$ -filled. What fraction of tank Q is filled with water?



P



Q

42.)

Roy can type 60 words per minute. Annette can type 70 words per minute. Complete the tables below.

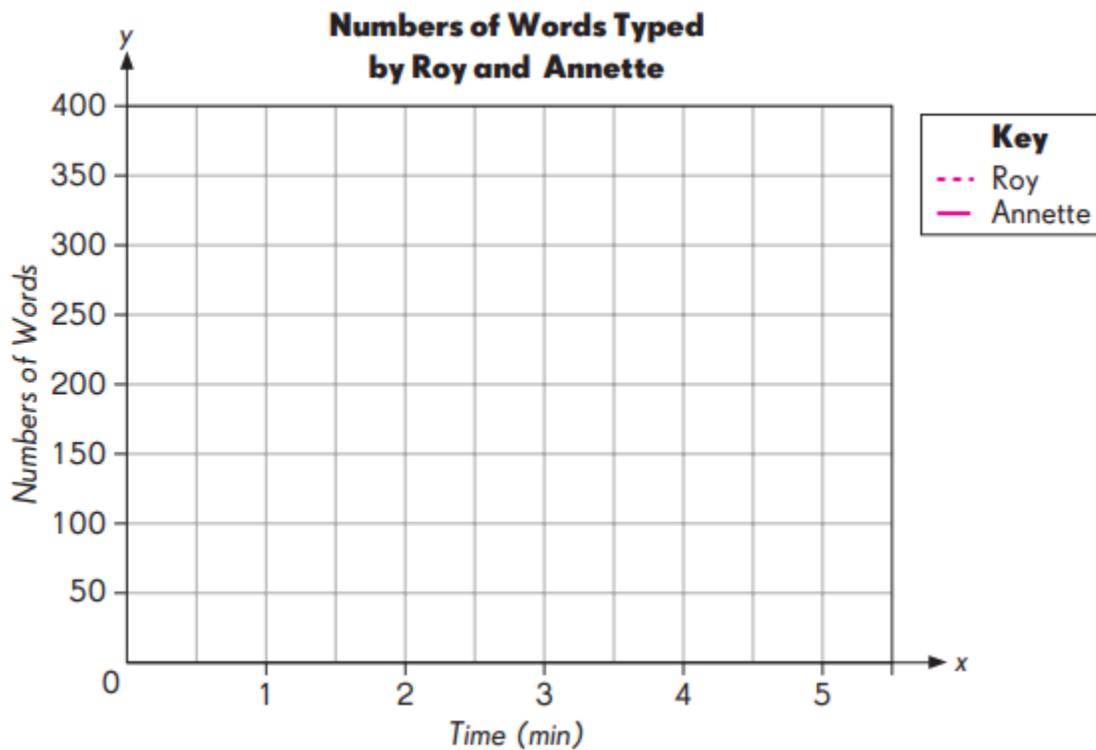
Number of Words Typed by Roy

Time (min)	1	2	3	4	5
Number of Words	60				

Number of Words Typed by Annette

Time (min)	1	2	3	4	5
Number of Words	70				

43.) Plot the points on the coordinate grid.



44.) How many words do each of them type in 4 minutes?

Roy _____ Annette _____

45.) How long does each person take to type 840 words?

Roy _____ Annette _____

46.) Estimate the time taken by each person to type 1260 words.

Roy _____

Annette _____

47.) Annette typed a document for 15 minutes and then had to leave. She asked Roy to continue typing from where she had stopped. Roy took 24 minutes to complete typing the document. How many words were in the document?

48.) A supermarket has 64 cartons of 40 peaches in each. The peaches are packed into bags of 8 each. How many bags of peaches are there? *Show your work.*

49.) A van cost \$12,655. Mr. Zhou paid a deposit of \$6,655 and he will pay the rest in 12 equal payments. How much does he have to pay for each payment?

50.)

Claire has $\frac{3}{2}$ gallons of water. She pours the water equally into 6 glasses.

How much water is in each glass?
