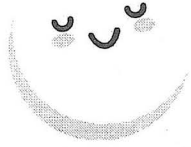


NAME: _____

DATE: _____



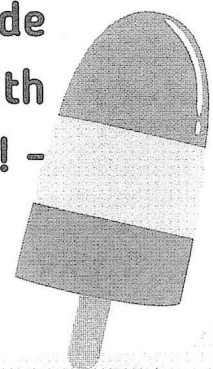
SUMMER

MATH SUCCESS PLAN

Students will be expected to complete the entire math packet of work this summer for a complete summer success plan. We have outlined what days each task could be completed, but students may work at their own pace and stretch the math project into August if necessary.

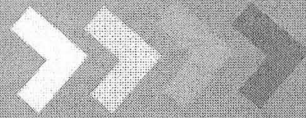
**Please bring all completed work
back to school on the first day!**

We hope your summer is filled with outside time, swimming, playing, friends, and fun with just a little bit of reading and math each day! -
-- Mrs. Bell, Mr. Davidson, and Mrs. Rosa





2026



July

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

notes

Please complete each task outlined on the calendar.

			1	2	3	4
5	Unit Rate 6	% of a Number 7	Measurement Conversions 8	GCF and LCM 9	Add and Subtract Decimals 10	11
12	Multiply and Divide Decimals 13	Decimal Word Problems 14	Add and Subtract Fractions 15	Multiply Fractions 16	Divide Fractions 17	18
19	Fraction Word Problems 20	Integers in Real World Number Lines 21	The Coordinate Plane & Quadrants 22	Absolute Value/ Ordering Rations #'s 23	Distributive Property/ Order of Operations 24	25
26	Evaluating Expressions 27	Writing Expressions 28	Solutions to Equations and Inequalities 29	Writing Inequalities 30	Volume 31	

Rounding with Whole Numbers & Decimals

—	—	—	—	—	●	—	—	—
ten-thousands	thousands	hundreds	tens	ones		tenths	hundredths	thousandths

1. Keep all digits to the left of the place you are rounding the same
2. If the digit to the right of the rounding digit is less than 5, keep the rounding digit the same. If it's 5 or greater, increase the rounding digit by 1.
3. Change all places to the right of the digit you are rounding to 0. (Trailing zeros after the decimal are unnecessary)

ex: round 52.943 to the nearest tenth

52.943

less than 5, so the 9 stays the same

52.900

don't need trailing zeros after the decimal

52.9

Word Form & Expanded Form

1. Word Form: write the whole number in word form, translate the decimal to "and", & write the decimal as if it were a whole number, followed by the name of the place of the last digit
2. Expanded Form: write the value of each non-zero digit separately, with addition signs between them

ex: 209.315

two hundred nine and three hundred fifteen thousandths

$200 + 9 + 0.3 + 0.01 + 0.005$

Comparing & Ordering Decimals

1. Compare the whole number portions of the numbers. If they are different write $>$ for greater than or $<$ for less than.
2. If the whole numbers are the same, compare each digit to the right of the decimal point, one at a time until you find digits that are different. (If necessary, add zeros at the end of a decimal.)

ex: 13.702 $\bigcirc$ 13.74

$13 = 13$

$13.7 = 13.7$

$13.70 < 13.74$

So, $13.702 < 13.74$

Round the number 21,498.2536 to the nearest indicated place.

19. tenth	20. hundred	21. thousandth	22. one
23. thousand	24. hundredth	25. ten	26. ten-thousand

Complete the chart below.

Standard Form	Expanded Form	Word Form
3.962	27.	28.
29.	100 + 2 + 0.09	30.
31.	32.	Five thousand six hundred eighty-five and twelve hundredths
8,770.006	33.	34.
35.	900 + 10 + 4 + 0.3 + 0.02 + 0.008	36.
37.	38.	Two thousand nine and thirty-five thousandths

Compare each pair of numbers by writing $<$, $>$, or $=$ in the provided circle.

39. 0.046 0.13	40. 9.52 90.13	41. 24.13 24.130	42. 15.96 15.906
43. 0.964 1	44. 6.83 6.825	45. 7.256 7.24	46. 32.9 3.290

Order the numbers from least to greatest.

47. 6.86, 6.8, 7, 6.9, 6.827	48. 12.03, 1.2, 12.3, 1.203, 12.301
------------------------------	-------------------------------------

Adding & Subtracting Decimals

1. Write the problem vertically, lining up the decimal points
2. Add zeros, if necessary
3. Add or subtract the numbers as if they were whole numbers
4. Bring the decimal point straight down

ex: $12.8 - 1.52$

$$\begin{array}{r} 12.\overset{7}{8}\overset{0}{0} \\ - 1.52 \\ \hline 11.28 \end{array}$$

Multiplying Decimals

1. Write the problem vertically with the numbers lined up to the right (decimals do NOT need to be lined up)
2. Ignore the decimal points and multiply the numbers as if they were whole numbers
3. Count the total number of decimal places in the two factors and put a decimal point in the product so that it has that same number of decimal places

ex: 3.24×0.8

$$\begin{array}{r} \overset{1}{3}.\overset{3}{2}4 \rightarrow 2 \text{ decimal places} \\ \times 0.8 \rightarrow 1 \text{ decimal place} \\ \hline 2592 \end{array}$$

3 decimal places

$\downarrow$

2.592

Dividing Decimals

1. Write the dividend under the division symbol and the divisor in front of the division symbol
2. Move the decimal in the divisor after the number and then move the decimal in the dividend the same number of places and bring it up
3. Ignore the decimal point and divide as if whole numbers
4. If there is a remainder, add a zero to the end of the dividend, bring it down, and then continue dividing until there is no remainder

ex: $32.3 \div 0.5$

$$\begin{array}{r} \boxed{64.6} \\ 0.5 \overline{) 32.30} \\ \underline{-30} \\ 23 \\ \underline{-20} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

Find each sum or difference. Show your work.

49. $8.74 + 10.36$	50. $37.4 - 8.55$	51. $12.9 + 105.67$	52. $450.89 - 213.33$
53. $24.1 + 3.74$	54. $14.76 - 9.8$	55. $622.85 + 53.49$	56. $67 - 14.06$

Find each product or quotient. Show your work.

57. 4.5×6	58. $144.8 \div 4$	59. 2.7×0.8	60. $6.2 \div 0.04$
61. 8.9×2.5	62. $15.8 \div 0.5$	63. 14.8×0.12	64. $16.2 \div 1.2$

Solve each problem, showing all work.

65. Ryan spent \$3.25 on lunch every day, Monday through Friday. If he had \$20 at the start of the week, how much money did he have left after Friday?	66. Three friends went out to lunch. The bill came to \$47.31. If they split the bill evenly, how much money does each friend owe?
---	--

Adding & Subtracting Fractions

1. Rename the fractions to equivalent fractions with common denominators
2. Add or subtract the numerators and keep the denominator the same
3. If mixed numbers, add or subtract the whole numbers
4. If possible, simplify the answer & change improper fractions to mixed numbers

ex: $4\frac{4}{9} + \frac{2}{3}$

$$\begin{array}{r} 4\frac{4}{9} \times \frac{1}{1} = \frac{4}{9} \\ + \quad \frac{2}{3} \times \frac{3}{3} = \frac{6}{9} \\ \hline \end{array}$$

$$4 \frac{10}{9} = \boxed{5 \frac{1}{9}}$$

Multiplying Fractions

1. Turn a whole number into a fraction by giving it a denominator of 1
2. Cross-simplify the fractions if possible
3. Multiply the 2 numerators and the 2 denominators
4. If possible, simplify the answer & change improper fractions to mixed numbers

ex: $6 \times \frac{2}{3}$

$$\begin{array}{r} \cancel{2}^2 \times \frac{2}{\cancel{3}_1} = \frac{4}{1} \end{array}$$

$$= \boxed{4}$$

Dividing Fractions

1. Turn a whole number into a fraction by giving it a denominator of 1
2. Keep the 1st fraction the same, change the division symbol to multiplication, and flip the 2nd fraction to its reciprocal
3. Multiply the 2 fractions
4. If possible, simplify the answer & change improper fractions to mixed numbers

ex: $12 \div \frac{1}{2}$

$$\frac{12}{1} \div \frac{1}{2}$$



$$\frac{12}{1} \times \frac{2}{1} = \frac{24}{1} = \boxed{24}$$

Find each sum or difference. Show your work.

67. $\frac{7}{8} + \frac{5}{6}$	68. $\frac{9}{10} - \frac{1}{2}$	69. $\frac{3}{11} + \frac{2}{3}$	70. $\frac{11}{12} - \frac{13}{18}$
71. $4\frac{5}{9} + 7\frac{1}{3}$	72. $12\frac{9}{14} - 9\frac{3}{7}$	73. $3\frac{3}{5} + 2\frac{3}{4}$	74. $2\frac{2}{15} - 1\frac{2}{3}$

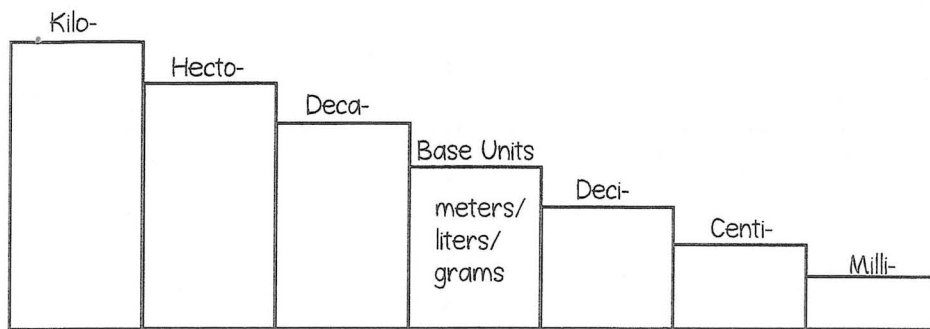
Find each product or quotient. Show your work.

75. $\frac{1}{6} \times \frac{3}{4}$	76. $6 \div \frac{1}{3}$	77. $15 \times \frac{2}{3}$	78. $\frac{1}{2} \div 3$
79. $\frac{1}{6} \times 10$	80. $\frac{1}{4} \div 2$	81. $\frac{5}{9} \times \frac{3}{20}$	82. $4 \div \frac{1}{5}$

Solve each problem, showing all work.

83. Jacqui ran $1\frac{1}{2}$ miles on Monday, Wednesday, and Friday and $\frac{3}{4}$ mile on Tuesday and Thursday. How far did she run in all?	84. Tyrell gave 3 packs of baseball cards to his friends. He gave each friend $\frac{1}{3}$ of a pack. How many friends got baseball cards?

The Metric System



ex: $23 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

going from base unit step to centi- step, so need to move the decimal 2 places right

$$23.00$$

$$= \boxed{2,300 \text{ cm}}$$

Determine the direction and count the number of steps it takes to get from the starting unit to the unit you are converting to and move the decimal point the same number of places in that direction.

The Customary System

Length	Weight	Capacity
1 ft = 12 in	1 lb = 16 oz	1 c = 8 fl oz
1 yd = 3 ft	1 T = 2,000 lb	1 pt = 2 c
1 mi = 5,280 ft		1 qt = 2 pt
		1 gal = 4 qt

ex: $18 \text{ c} = \underline{\hspace{2cm}} \text{ pt}$

cups are smaller units of measure than pints, so need to divide

$$18 \div 2 = \boxed{9 \text{ pints}}$$

To convert from a larger unit to a smaller unit, multiply. To convert from a smaller unit to a larger unit, divide.

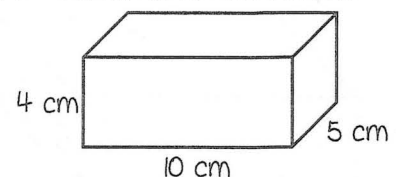
Volume

Volume is the number of cubic units inside a figure.

Volume of Rectangular Prism = length x width x height

Volume of Irregular Figure: count cubic units

ex: find the volume



$$V = 4 \times 10 \times 5 = \boxed{200 \text{ cm}^3}$$

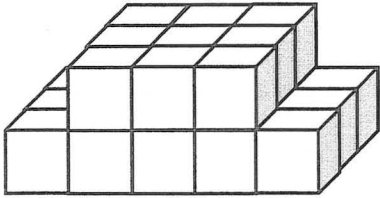
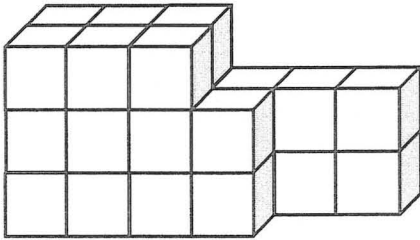
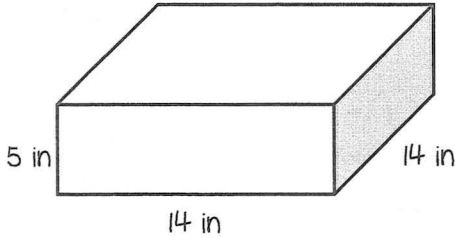
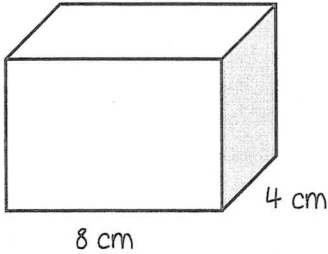
Convert each Metric measurement. Show your work.

85. 1.9 km = _____ m	86. 23 g = _____ mg	87. 350 ml = _____ kl
88. 0.07 kg = _____ cg	89. 6 cm = _____ m	90. 35 ml = _____ l

Convert each Customary measurement. Show your work.

91. 48 in = _____ ft	92. 6 pt = _____ c	93. 3 T = _____ lb
94. 1.5 mi = _____ ft	95. 32 pt = _____ gal	96. 32 oz = _____ lb

Find the volume of each figure. Show your work.

97. 	98. 
99. 	100. 

THINGS YOU SHOULD KNOW

Measurement Conversions:

Metric Length	Metric Weight	Metric Capacity
10 mm = 1 cm 100 cm = 1 m 1,000 mm = 1 m 1,000 m = 1 km	1 kg = 1,000 g 1 g = 1,000 mg	1 kL = 1,000 L 1 L = 1,000 mL
Standard Length	Standard Weight	Metric Capacity
1 mi. = 1,700 yd. 1 mi. = 5,280 ft. 1 yd. = 3 ft. 1 ft. = 12 in.	16 oz. = 1 lb. 1 T = 2,000 lbs.	1 gal = 4 qt. 1 gal = 128 fl oz. 1 qt. = 2 pts. 1 pt. = 2 c. 1 c. = 8 fl oz.

Formulas:

Area of squares and rectangles: $A = l \cdot w$

Volume of rectangular prisms: $V = l \cdot w \cdot h$

Order of Operations:

P : Parenthesis

E : Exponents

MD : Multiplication OR

Division (from left to right)

AS : Addition OR Subtraction

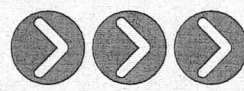
(from left to right)

Decimal Operations:

	The Steps
Add	- Line up the decimals. - Fill in empty spaces with a zero. - Add. - Drop the decimal down into your answer.
Subtract	- Line up the decimals. - Fill in empty spaces with a zero. - Subtract. - Drop the decimal down into your answer.
Multiply	- Multiply as you normally would. - Count the number of decimal places in the factors. - The product should have the same number of decimal places as the factors.
Divide	- Divide as you normally would. - Float the decimal up into your answer.

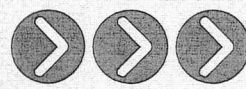
Fraction Operations:

	The Steps
Add	- Re-write each fraction with the LCD. - Add the numerators. - Simplify.
Subtract	- Re-write mixed numbers as improper fractions. - Re-write each fraction with the LCD. - Subtract the numerators. - Simplify.
Multiply	- Re-write mixed numbers as improper fractions. - Multiply straight across. - Simplify.
Divide	- Re-write mixed numbers as improper fractions. - Flip the second fraction. - Change the division sign to multiplication. - Multiply straight across. - Simplify.



UNIT RATE

1) \$4.50 for 2 gallons of gas.	2) \$14.80 for 4 pounds of fruit.	3) 145 miles on 9 gallons of gas.	4) \$25 for seven tickets.
5) \$14 for 6 drinks.	6) 11 miles in 45 minutes.	7) 918 miles in 18 hours.	8) 240 t-shirts made in 9 hours.
9) 210 donuts can be made in 10 hours. How many can be made in 3 hours?	10) An airplane travels 475 miles in 5 hours. How far will the airplane travel in 9 hours?		
11) You bought 11 books for \$42.35. How much would 15 books cost?	12) In 9 hours, 2 inches of rain fell. At this rate, how many inches would fall in 12 hours?		



UNIT RATE

1) Find the unit rate.

lbs.	Total Cost (\$)
0	0
1	3
2	6
3	9

2) Find the unit rate.

Day	# of Guests
1	100
2	200
3	300
4	400

3) Find the unit rate.

Day	Cupcakes Sold
0	0
1	2
2	4
3	6

4) Find the unit rate.

lbs.	Total Cost (\$)
0	0
2	3
4	6
6	9

5) Find the unit rate.

Day	Tickets Sold
1	30
2	60
3	90
4	120

6) Find the unit rate.

Boxes	Cost (\$)
0	0
2	10
4	20
6	30

7) Find the unit rate.

Day	Cookies Made
0	0
3	30
6	60
9	90

8) Find the unit rate.

Bags	Total Cost (\$)
1	5
2	10
3	15
4	20

9) Find the unit rate.

Kids	Total Spent (\$)
10	20
20	40
30	60
40	80

10) Find the unit rate.

Kids	Teachers
5	1
10	2
15	3
20	4

11) Find the unit rate.

lbs.	Total Cost (\$)
0	0
4	2
8	4
12	6

12) Find the unit rate.

Day	Number Sold
0	0
5	40
10	80
15	120

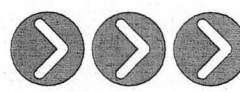
PERCENT OF A NUMBER

1) What is 150% of 90?	2) What is 1% of 41?	3) What is 0.4% of 42?	4) 87 is 15% of what number?
5) What is 35% of 700?	6) What is 36% of 745?	7) What is 350% of 80?	8) 24 is 40% of what number?
9) What is 12% of 4?	10) 65 is 50% of what number?	11) What is 85% of 10?	12) What is 98% of 88?
13) What is 6% of 33?	14) What is 68% of 98?	15) 90 is 60% of what number?	16) What is 30% of 20?

MEASUREMENT CONVERSIONS

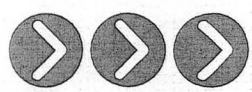
Directions: Convert each measurement. Round to the nearest tenth.

1) Convert 12 feet to inches.	2) Convert 5 yards to feet.	3) Convert 420 meters to centimeters.
4) Convert 30 feet to yards.	5) Convert 10.5 feet to inches.	6) Convert 28 quarts to gallons.
7) Convert 8 inches to feet.	8) Convert 3.5 yards to inches.	9) Convert 2 quarts to cups.
10) Convert 12 quarts to gallons.	11) Convert 11 yards to feet.	12) Convert 7 pints to cups.
13) Convert 40 inches to yards.	14) Convert 30 feet to inches.	15) Convert 150 centimeters to meters.



GCF AND LCM

1) Find the GCF of 44 & 14	2) Find the GCF and LCM of 5 & 8 GCF : _____ LCM : _____	3) Find the GCF of 20 & 15
4) Find the GCF and LCM of 4 & 6 GCF : _____ LCM : _____	5) Find the GCF of 30 & 40	6) Find the GCF and LCM of 16 & 6 GCF : _____ LCM : _____
7) Find the LCM of 4, 21 and 24	8) Find the GCF and LCM of 12 & 4 GCF : _____ LCM : _____	9) Find the LCM of 3 & 5
10) Find the GCF and LCM of 30 & 6 GCF : _____ LCM : _____	11) Find the LCM of 14, 20 and 30	12) Find the GCF and LCM of 6 & 12 GCF : _____ LCM : _____



ADD & SUBTRACT DECIMALS

Directions: Simplify each expression. Show your work.

1) $13.2 + 6.84$

2) $19.12 + 0.45$

3) $10.362 - 1.2$

4) $30.5 - 3.23$

5) $12.89 + 4.9$

6) $5.032 + 9.6$

7) $15.5 - 3$

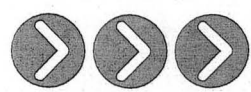
8) $16.32 - 8.1$

9) You buy 2.67 pounds of apples and 4.9 pounds of oranges. How many pounds of fruit did you buy?

10) You cut a 2.675 foot section from an 8.9 foot piece of wood. How much is left?

11) Gina has three rolls of ribbon. One roll has 12.6 inches, the second is 18.24 inches long and the last has 19.05 inches of ribbon. How much ribbon does she have?

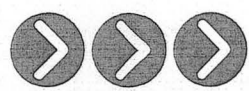
12) Travis has a \$20 gift card. He spent \$9.62 and then another \$2.49. How much is left on the gift card?



MULTIPLY & DIVIDE DECIMALS

Directions: Simplify each expression. Show your work.

1) $3.2 \cdot 4.6$	2) $8.9 \cdot 4.1$	3) $28.305 \div 5.1$	4) $29.2 \div 4$
5) $6.12 \cdot 4.3$	6) $9.86 \cdot 0.2$	7) $10.35 \div 9$	8) $30.24 \div 2.8$
9) $5.82 \cdot 1.6$	10) $13.45 \cdot 2.2$	11) A 14.24 pound bag of cheese is split among 5 pizzas. How much cheese is on each pizza?	
12) Veronica ran 2.5 times around a 4.62 mile course. How far did she run?		13) A 6.5 foot long piece of wood is cut into 5 sections. How long is each section?	



DECIMAL WORD PROBLEMS

Directions: Read each problem carefully and solve. Show your work.

1) Emma is 7.8 years old. She is 1.2 times older than Gavin. How old is Gavin?

2) Eileen had \$2.47 left on her lunch account. She spent \$1.86 today. How much money is now left on her account?

3) Hank ran 1.6 miles on Monday, 2.08 miles on Tuesday and 3.65 miles on Wednesday. How many miles did he run over the three days?

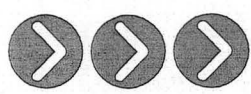
4) Christina bought 4.2 pounds of bananas for \$0.49 per pound. How much did she spend on bananas?

5) Four people split a \$46.80 prize equally. How much does each person get?

6) Sam and Peter went fishing. Sam caught 12.67 pounds of fish and Sam caught 9.29 pounds of fish. They gave away 2.75 pounds. What is the weight of the fish they have left?

7) Mr. Johnson purchased 4 pieces of wood for \$1.99 each and 6 pieces for \$3.85 each. How much did he spend on wood?

8) Emilio makes \$12.75 per hour. How much does he make for working 8.8 hours?



ADD & SUBTRACT FRACTIONS

Directions: Simplify each expression. Show your work.

1) $\frac{1}{2} + 6\frac{2}{3}$

2) $\frac{5}{8} + 2$

3) $5\frac{3}{5} - 1\frac{1}{3}$

4) $10\frac{4}{5} - 3\frac{1}{2}$

5) $3\frac{1}{4} + 4\frac{1}{2}$

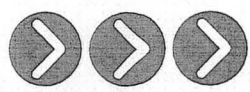
6) $9\frac{1}{3} + 4\frac{5}{6}$

7) $8\frac{2}{3} - 5\frac{1}{5}$

8) $4\frac{5}{6} - 1\frac{1}{8}$

9) Jake ran $3\frac{1}{2}$ miles Saturday and $4\frac{5}{6}$ miles Sunday. How far did he run over the weekend?

10) Wayne ran $3\frac{1}{2}$ miles out of a $9\frac{2}{3}$ mile race. How much further does he have left to run?



MULTIPLYING FRACTIONS

Directions: Simplify each expression. Show your work.

1) $\frac{2}{5} \cdot \frac{7}{10}$

2) $\frac{2}{3} \cdot 8$

3) $\frac{7}{8} \cdot \frac{2}{3}$

4) $\frac{3}{10} \cdot \frac{1}{4}$

5) $3\frac{1}{2} \cdot 4$

6) $6\frac{1}{8} \cdot 2\frac{1}{2}$

7) $3\frac{1}{3} \cdot 4\frac{3}{4}$

8) $5\frac{2}{5} \cdot \frac{9}{10}$

9) $8\frac{1}{3} \cdot 2\frac{1}{4}$

10) $3\frac{3}{5} \cdot 6\frac{1}{5}$

11) Kim has four pieces of ribbon that are each $12\frac{1}{5}$ inches long. How much ribbon does she have altogether?

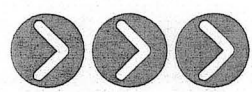
12) You ran $4\frac{1}{2}$ times around a $2\frac{1}{4}$ mile track.
How far did you run?

13) Sasha has six boxes of chocolate that each weigh $16\frac{1}{8}$ ounces. How much chocolate does she have altogether?

DIVIDING FRACTIONS

Directions: Simplify each expression. Show your work.

1) $\frac{2}{5} \div 8$	2) $\frac{5}{6} \div 4$	3) $\frac{7}{8} \div 2$	4) $\frac{9}{10} \div 4$
5) $3\frac{1}{2} \div 5$	6) $6\frac{1}{5} \div 2$	7) $9\frac{1}{3} \div 3$	8) $5\frac{2}{5} \div 2$
9) $5\frac{1}{2} \div \frac{3}{5}$	10) $\frac{7}{10} \div \frac{1}{3}$	11) $10\frac{1}{4} \div \frac{2}{5}$	12) $\frac{11}{12} \div \frac{1}{6}$
13) A $4\frac{9}{10}$ foot long piece of wood is cut into 6 sections. How long is each section?	14) You split $8\frac{1}{2}$ pounds of strawberries equally among 5 containers. How many pounds of strawberries are in each container?		



FRACTION WORD PROBLEMS

Directions: Read each problem carefully and solve. Show your work.

1) $\frac{4}{7}$ of a pizza was eaten. The next day, $\frac{1}{2}$ of what was left was eaten. How much is left of the original pizza?

2) Erin brought $8\frac{1}{2}$ pounds of ham to a party. Ryan brought an additional $2\frac{3}{5}$ pounds. How much ham was brought to the party?

3) Yvette ran $4\frac{7}{8}$ miles. Greg ran $1\frac{7}{10}$ miles. How much further did Yvette run?

4) A recipe calls for $5\frac{1}{3}$ cups of sugar. How much sugar will be needed if the recipe is quadrupled?

5) Betty is making $4\frac{1}{2}$ dozen cookies. She needs $1\frac{7}{8}$ cups of chocolate chips for one dozen cookies. How many cups of chocolate chips does Betty need?

6) A fish tank holds $12\frac{3}{5}$ gallons of water. The fish tank is filled $\frac{7}{8}$ of the way. How much water is in the fish tank?

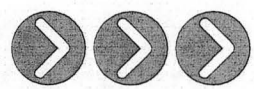
7) Liz drank $\frac{10}{12}$ of a gallon of water yesterday and $1\frac{1}{3}$ gallons today. How much water has Liz consumed over the last two days?

8) There are 40 students in an art club. $\frac{2}{5}$ of the students are females. How many students in the art club are females?

INTEGERS IN THE REAL WORLD

Directions: Write an integer to represent each situation.

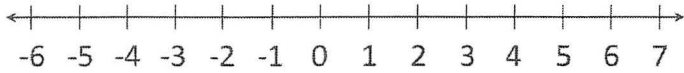
1) A loss of 14 pounds.	2) A bird flying 42 feet in the air.	3) A fish swimming 23 feet below the surface of the water.	4) A drop of 30 degrees.
5) A dog is 2.3 pounds overweight.	6) Mr. Brown is \$2,000 in debt.	7) A car is parked 52 feet down in an underground garage.	8) Brett climbed 11 feet up a ladder.
9) Workers dug down 15 feet to start building a home.	10) The price of a movie increased \$2.50.	11) A coupon was used for \$20 off.	12) A bank withdraw of \$40.
13) A bank deposit of \$240.	14) Barbara spent \$65 on groceries.	15) A scuba diver ascended 10 feet.	16) The depth of snow went from 2 inches to 6 inches.



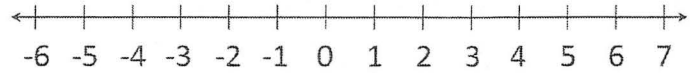
NUMBER LINES

Directions: Estimate the location of each number on the given number line.

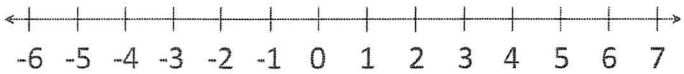
1) -2.4



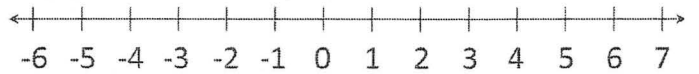
2) 5.5



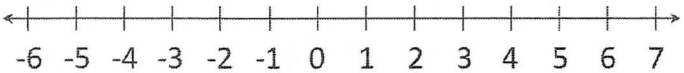
3) -4



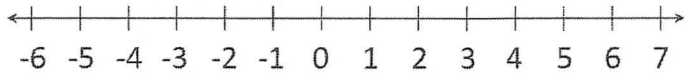
4) $1\frac{3}{4}$



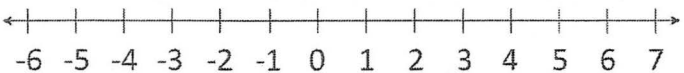
5) $-\frac{1}{2}$



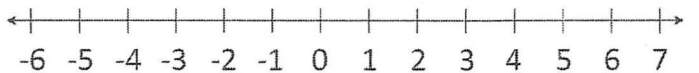
6) -2



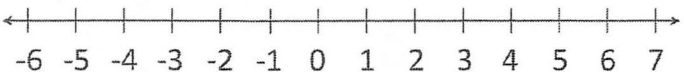
7) $6\frac{3}{4}$



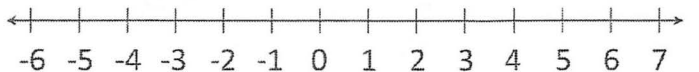
8) $\frac{3}{4}$

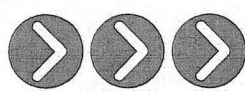


9) -3



10) 3

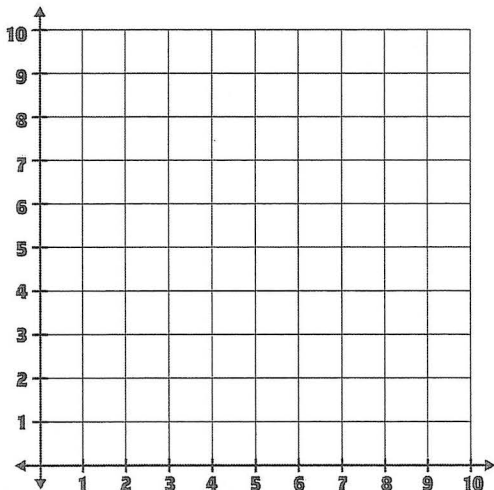




THE COORDINATE PLANE

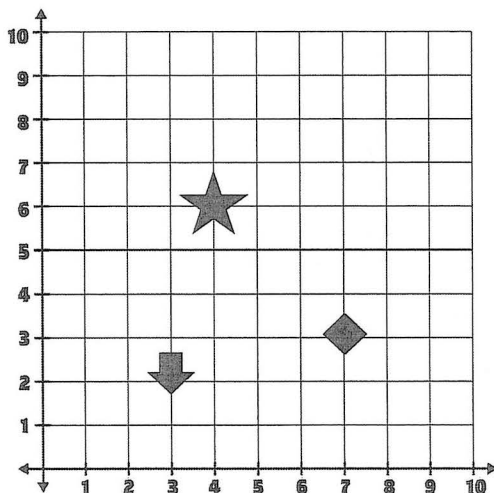
1) Plot the following points.

- A. (2, 3)
- B. (4, 1)
- C. (6, 3)
- D. (4, 5)

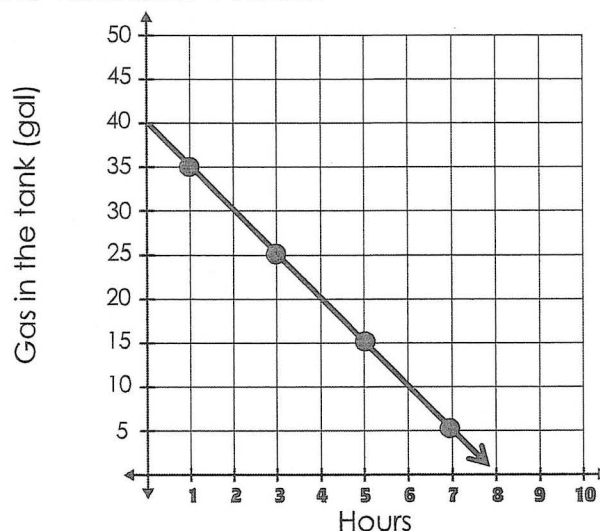


2) If you start at point (2, 2) and move right 3, then up 5, where do you end up?

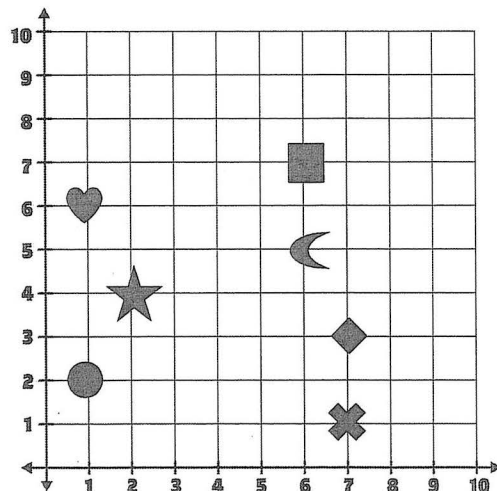
3) Which shape is closest to the point (2, 5)?



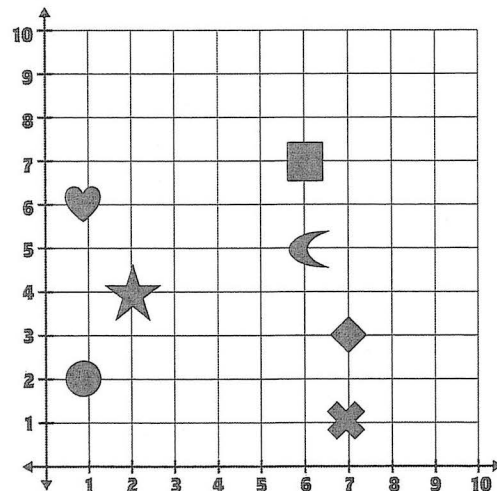
4) Based on the graph below, how much gas is left in the tank after 4 hours?



5) What shape is at (6, 7)?

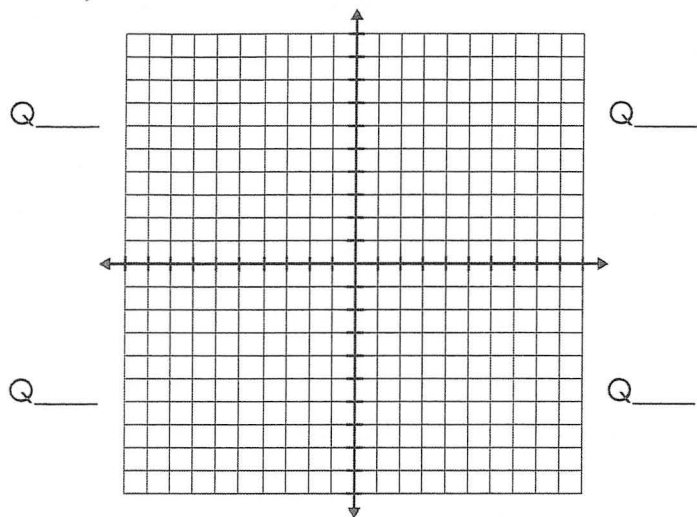


6) What are the coordinates of the heart?



>>> QUADRANTS

1) Label each quadrant.



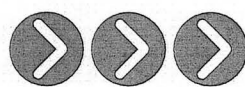
2) In which quadrant would you find the point $(5, -8)$? Plot it on the coordinate plane in #1.

3) In which quadrant would you find the point $(3, 9)$? Plot it on the coordinate plane in #1.

4) In which quadrant would you find the point $(-4, -4)$? Plot it on the coordinate plane in #1.

5) In which quadrant would you find the point $(-1, 6)$? Plot it on the coordinate plane in #1.

6) In which quadrant would you find the point $(1.2, -4.5)$? Estimate the location of this point on the coordinate plane in #1.



ABSOLUTE VALUE

1) What is the definition of absolute value?		2) Find the absolute value of -5. Explain what it means.
3) How far is 6 from zero on a number line?	4) Is the absolute value of a number the same as the opposite? Explain.	
5) Find the absolute value of -4.3. Explain what it means.		6) Find the absolute value of 0.
8) Find the absolute value of 1.		9) Find the absolute value of 8. Explain what it means.
		7) How far is -8 from zero on a number line?
		10) Find the absolute value of 140.

ORDERING RATIONAL NUMBERS

1) Put the following numbers in order from least to greatest.

0.3, 0.13, 0.32, 0.303

2) Put the following numbers in order from greatest to least.

6.05, 6.007, 6.5, 6.25

3) Put the following numbers in order from greatest to least.

8.2, 0.82, $\frac{4}{5}$, 0.08

4) Put the following numbers in order from least to greatest.

$-3\frac{1}{2}$, $2\frac{1}{2}$, $2\frac{10}{11}$, $-2\frac{1}{2}$

5) Put the following numbers in order from least to greatest.

-5.2 , 5.04, -5.42 , -5 , 5.14

6) Put the following numbers in order from least to greatest.

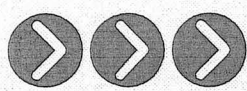
-2 , 2.2, -2.2 , -2.02 , 2

7) Put the following numbers in order from greatest to least.

$-\frac{2}{5}$, 2.5, -0.42 , -2.2 , 0.22

8) Put the following numbers in order from greatest to least.

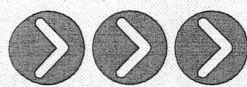
$\frac{1}{5}$, 0.02, $\frac{11}{50}$, 0.022



DISTRIBUTIVE PROPERTY

Directions: Simplify each expression. Show your work.

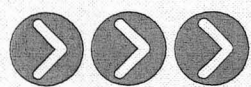
1) $6(x + 4)$	2) $2x(5 - 1)$	3) $10(6x - 2)$	4) $2(2 + 3x) + 4x$
5) $6(2x + 3) - 3x$	6) $2x(5 + 4) - 2$	7) $8(5x - 10)$	8) $3(4x - 2(2))$
9) $8x(5 - 2) - 3x$	10) $9(8x - 5) + 3$	11) $(5 + 3)2x + 4x$	12) $2(9 - 5x) - 2x$
13) $10(3x + 4) + 5$	14) $4x(4 + 2) + 10x$	15) $(16 - 4)4x + 3$	16) $4x(3 + 2) - 8 + x$



ORDER OF OPERATIONS

Directions: Simplify each expression. Show your work.

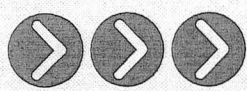
1) $260 - (2 \cdot 4)^2 - 9$	2) $2[3^2 + 2(5 - 1)]$	3) $10 + (6 \div 2)^3 - 4$	4) $6^2 + 2[5^2 + (2 \cdot 3)]$
5) $6(2 + 3) - 3^3$	6) $3^2 + 3[2(2 + 4)^2 - 2]$	7) $(2 \cdot 5)^2 - 10$	8) $8^2 - 2[4 - 2(2)]$
9) $2^4 + 14 \cdot 2 \div 4$	10) $9^2 \div 3^3 \cdot (8 - 5)^2$	11) $\frac{(5 + 3)^2}{6 - 2}$	12) $4^3 - 2(9)$
13) $2^3 + 2(3 \cdot 4)$	14) $40 \div 2^2 \cdot (4 - 2)^3$	15) $(16 - 4)^2 \cdot 4 + 3^2$	16) $10^2 - 2[2(3 \cdot 2)]$



EVALUATING EXPRESSIONS

Directions: Evaluate each expression. Show your work.

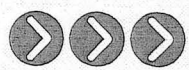
1) Evaluate $4x - 8$ if $x = 4$.	2) Evaluate $-3 - x$ if $x = -4$.	3) Evaluate $6(x + 2)$ if $x = \frac{1}{2}$.
4) Evaluate $x - 6$ if $x = 2.5$.	5) Evaluate $2(-x + 5)$ if $x = 10$.	6) Evaluate $\frac{3}{4}x$ if $x = -\frac{1}{4}$.
7) Evaluate $3 + x - 5x$ if $x = -3$.	8) Evaluate $3x + 8$ if $x = \frac{2}{3}$.	9) Evaluate $-8x$ if $x = -5.5$.
10) Evaluate $-x + 2x$ if $x = 8.2$.	11) Evaluate $-2\frac{1}{2}x + \frac{5}{6}$ if $x = -1$.	12) Evaluate $-2(3x + 8)$ if $x = 0$.



WRITING EXPRESSIONS

Directions: Write an expression for each situation.

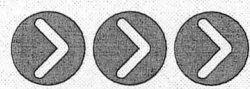
1) You pay \$1.25 per pound for x pounds of apples.	2) Emma weighs 38 pounds. Gavin weighs x pounds less.	3) Four friends split an $\$x$ dinner bill.
4) There are 15 kids on a bus. x more get on.	5) You have $\$x$ on a gift card and spend \$9.50.	6) It takes x days to build a house. 3 weeks have passed.
7) You buy x DVDs for \$15 each.	8) Bill used a \$10 bill to pay for a $\$x$ cup of coffee.	9) Nina left a $\$x$ tip on a \$42.60 lunch bill.
10) There were 325 students in 6 th grade last year. There are x less this year.	11) A soccer team raised \$4,250 for charity last year. This year they raised $\$x$ more.	12) Tim pays a moving company \$50 per hour. They help him move for x hours.



SOLUTIONS TO EQUATIONS & INEQUALITIES

Directions: Identify whether the given number is a solution to the equation or inequality. Show your work.

1) $3x + 4 = 12; x = 3$	2) $-4x + 2 = -14; x = 4$	3) $\frac{x}{2} = 10; x = 5$
4) $5x + (-2) = 10; x = 2.5.$	5) $\frac{1}{4}x = 20; x = 40$	6) $5\frac{1}{2} + x = 10\frac{1}{4}; x = 5\frac{1}{4}$
7) $5 + x \leq -10; x = -5$	8) $-2x > 22; x = 10$	9) $-x + 4 < 8; x = 10$
10) $-x - 2 > -3; x = -5$	11) $x - 5 \leq 8; x = -13$	12) $3x - 5 < 4$ if $x = 3$



SOLVING EQUATIONS

Directions: Solve each equation. Show your work.

1) $3x = 15$

2) $\frac{x}{3} = 45$

3) $x - (-8) = 4$

4) $9 + x = 2$

5) $-1 + x = -3$

6) $-x = 14$

7) $-3x = 18$

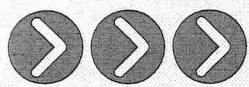
8) $\frac{-x}{5} = 20$

9) $\frac{1}{2}x = -8$

10) $4\frac{1}{2} + x = 9$

11) $x - 14 = -2$

12) $x + (-3) = -12$



WRITING INEQUALITIES

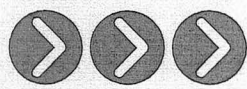
Directions: Write an inequality for each situation.

1) A number is at least -43 .	2) Twice a number is no more than 14.	3) Half a number is more than 20.
4) You can pay no more than \$20 for groceries.	5) Emily has already invited 6 friends to her party. She wants to invite at least 20 people altogether.	6) The temperature is at most 20° outside.
7) 7 is greater than a number.	8) A number is less than or equal to -15 .	9) -8 is more than triple a number.
10) At least 40 students need to return their permission slips for the field trip to take place.	11) A soccer team raised more than \$4,250 for charity.	12) Tim earns at most \$9 an hour at his job.

WRITING TWO-VARIABLE EQUATIONS & INEQUALITIES

Directions: Write an equation or inequality for each situation.

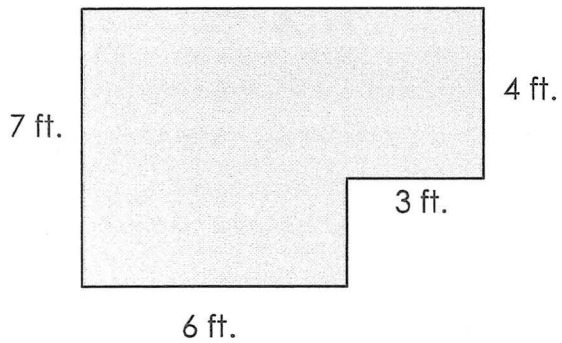
1) Four more than twice a number is forty.	2) Six less than half a number is no more than ten.	3) The quotient of twice a number and three is nine.
4) Harriett has \$150 saved. She plans to save an additional \$10 each month until she has more than \$2,000.	5) Ryan had \$400 on a gift card and spends \$10 each day. He now has less than \$60 on the gift card.	6) Brit has painted 3 portraits. She plans to paint 2 more each day until she has a total of 10.
7) Four times the sum of three and a number is at least twenty.	8) Eight more than a number is fifteen.	9) Nineteen is more than the sum of twice a number and three.
10) Ben is running and has completed 1.5 miles. He is going to run laps around a 0.5 mile track until he has completed at least 8 miles.	11) Drake has earned \$40 in tips. He also makes \$8 per hour. He wants to work until he has made \$100.	12) Kate has spent \$50. She is spending more money at a rate of \$10 per day. She wants to spend at most, \$200 this month.



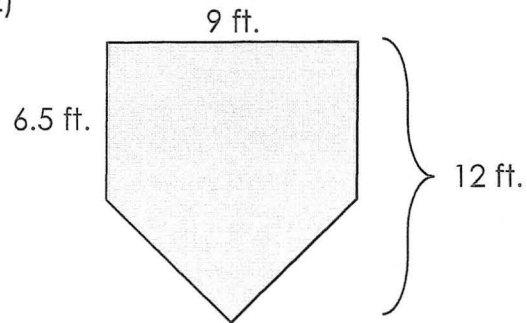
COMPOSITE AREA

Directions: Find the area of each figure. Figures are not drawn to scale.

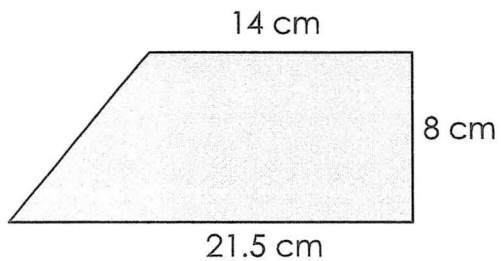
1)



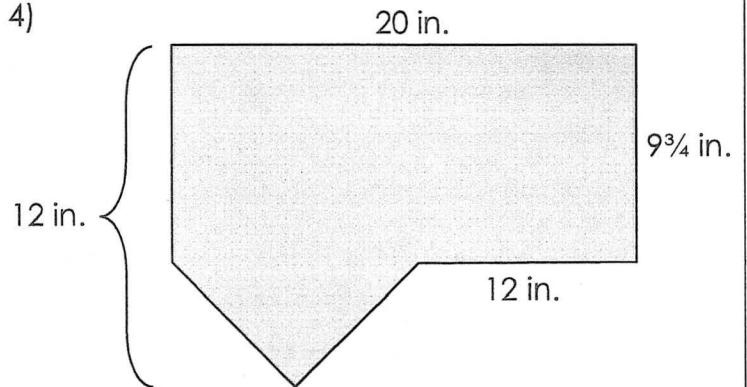
2)



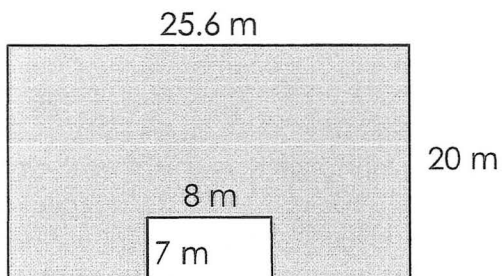
3)



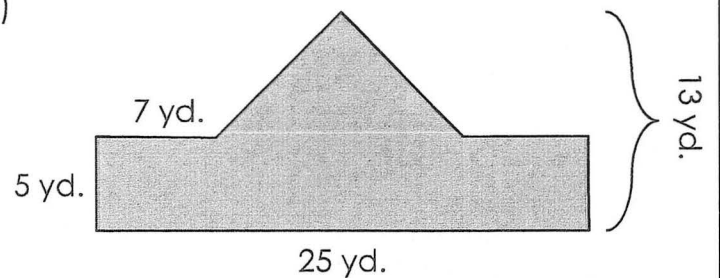
4)

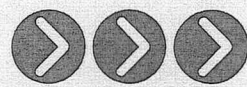


5)



6)

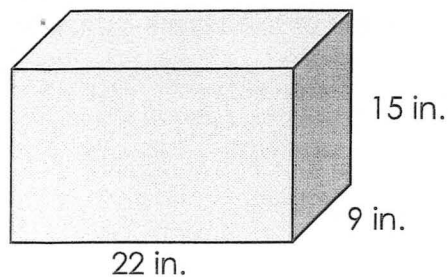




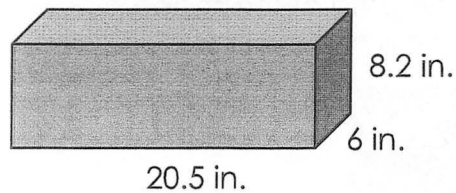
VOLUME

Directions: Find the volume of each figure. Figures are not drawn to scale.

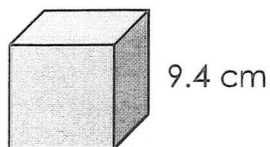
1)



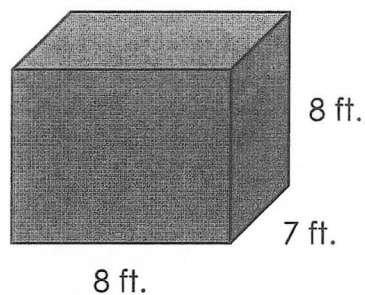
2)



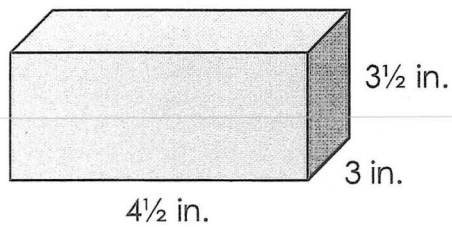
3)



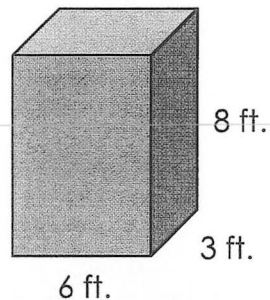
4)



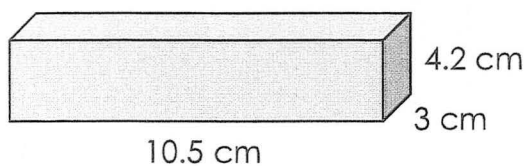
5)



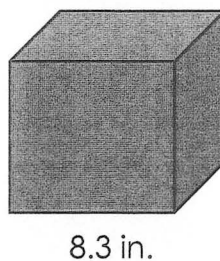
6)



7)



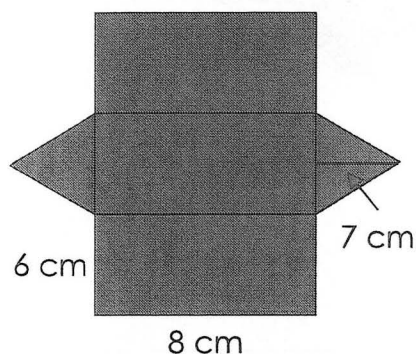
8)



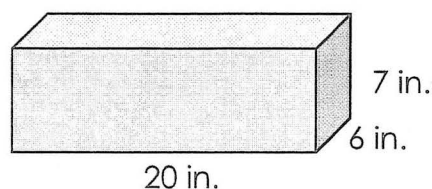
>>> 3D FIGURES AND NETS

Directions: Read each problem carefully. Show your work. Figures are not drawn to scale.

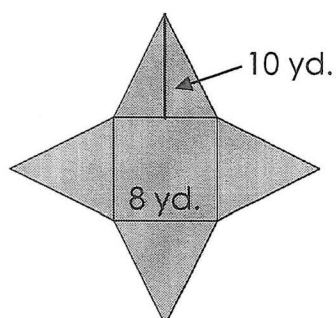
- 1) Find the surface area of the shape represented by this net.



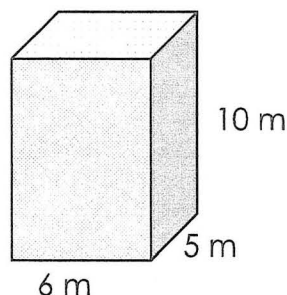
- 2) Find the surface area of the figure below.



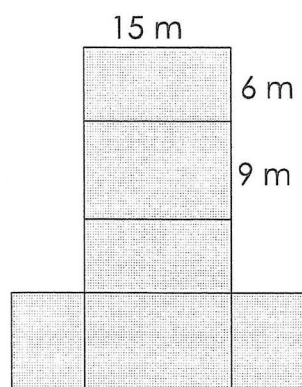
- 3) Find the surface area of the shape represented by this net.



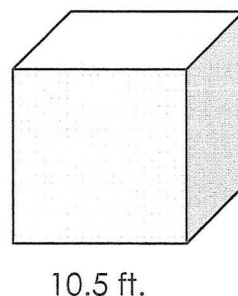
- 4) Find the volume of the figure below.



- 5) Find the volume of the shape represented by this net.



- 6) Find the surface area of the figure below.



➤ MEASURES OF CENTRAL TENDENCY

For #1 – 4: Ages of children in a camp : 5, 6, 8, 4, 6, 7, 8, 9, 12, 8, 10

1) Find the mean of the ages.

2) Find the median age.

3) Find the range of the ages.

4) Find the mode of the ages.

For #5 – 8: Height of seventh graders (inches) : 48, 60, 62, 55, 49, 52, 60, 58

5) Find the median height.

6) Find the range of the heights.

7) Find the mode of the heights.

8) Find the mean height.

