Dear Students,

I am asking that you continue to practice your math skills over the summer.

Attached is your math packet that is to be completed over the summer. The best thing to do is complete a page or two a day. This way you are not rushing to get it all completed at the end of summer. If you need more room than is in the boxes then you are to show your work on loose leaf and attach it to the packet. (Remember holes go on the left). Make sure your work is neat and the problems are numbered.

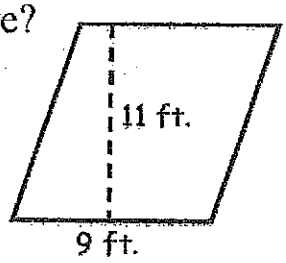
The packet will be collected the first week of school. It is the first grade for the trimester.

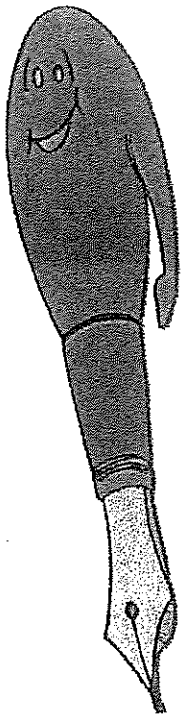
Have a happy and relaxing summer break.

Mrs. Bachman

Lesson #1

1. Give the estimated difference between 3,475 and 7,652.
2. Draw intersecting lines.
3. $32{,}896 + 44{,}973 = ?$
4. If $9x = 18$, what is the value of x?
5. Michael bought four packs of pens. Each pack contains 12 pens. Mark bought twice as many pens as Michael. How many pens did Mark buy?
6. $35 \times 27 = ?$
7. Round 4,876,213 to the nearest ten thousand.
8. How many sides does a pentagon have?
9. Find the GCF of 8 and 16.
10. $3{,}429 \div 9 = ?$
11. Find the area of the parallelogram.





12. A rectangular shaped waiting room has an area of 120 square feet and a perimeter of 44 feet. What are its dimensions?
13. $6.2 + 4.75 = ?$
14. Put $\frac{14}{16}$ in simplest form.
15. Water freezes at _____ degrees Celsius.
16. $\frac{3}{5} + \frac{2}{3} = ?$
17. $8 - 6\frac{4}{5} = ?$
18. Figures with the same size and shape are _____.
19. What is the probability of rolling an odd number on one roll of a die?
20. $\frac{5}{8} \bigcirc \frac{6}{7}$

Lesson #2

1. List the factors of 24.

2. $1\frac{1}{3} + 3\frac{3}{4} = ?$

3. Put these decimals in order from least to greatest.
   0.56 0.056 0.5 0.65

4. Write $9\frac{1}{2}$ as an improper fraction.

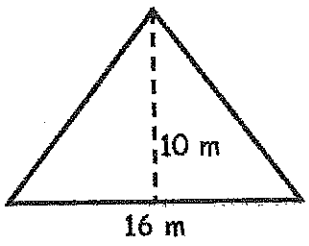
5. Is 25 a prime or a composite number?

6. $86 + ? = 104$

7. Make a factor tree for 12.

8. $\frac{3}{4} - \frac{3}{8} = ?$

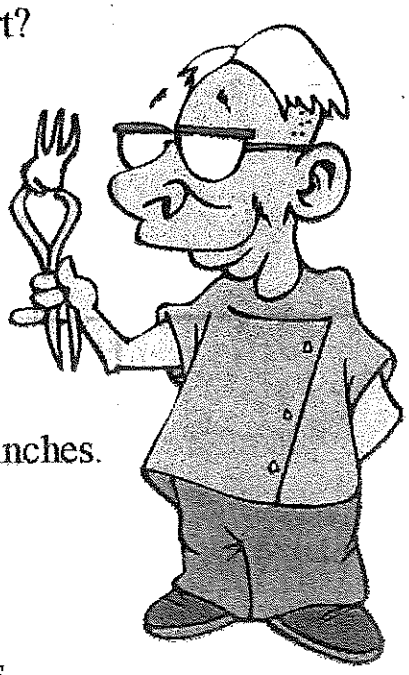
9. Find the area of the triangle.



10. $\frac{3}{10} \times \frac{5}{9} = ?$

11. Closed figures made up of line segments are _____.

12. Julie's bill for her last dentist appointment was $240. Her dental insurance will pay 60% of the bill. What amount will Julie have to pay after the insurance pays its part?



13. Find $\frac{2}{5}$ of 25.

14. Write 0.22 as a percent.

15. How many feet are in a mile?

16. $\frac{8}{10} \div \frac{4}{10} = ?$

17. Find the area of a square if a side measures 12 inches.

18. $8.841 \div 2.1 = ?$

19. What is 60% of 70?

20. Write the ratio three to seven in two other ways.

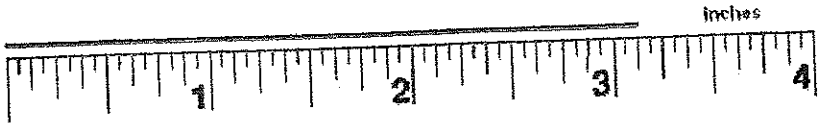
Lesson #3

1. How many pounds are 80 ounces?
2. Solve for x. $\frac{8}{16} = \frac{x}{6}$
3. Draw a line segment.
4. Write 0.55 as a reduced fraction and as a percent.
5. On her Science test, Susan got 15 of the 25 problems correct. What fraction of the problems was correct? What percent did she get correct?
6. An angle measures 104°. Is the angle acute, obtuse, or right?
7. If the diameter of a circle is 24 mm, what is the radius?
8. Which digit is in the hundredths place in 87.653?
9. Define *similar*.
10. How many faces does a cube have?
11. Mr. Smith's art class made a banner for the hall bulletin board. If the banner is 30 feet long and 4 feet wide, what is the area of the banner?
12. $0.5 - 0.2341 = ?$
13. How many years are 6 centuries?
14. Round 86.732 to the nearest tenth.
15. Write $\frac{34}{7}$ as a mixed number.
16. Find the LCM of 15 and 25.
17. Jack has 6 quarters, 3 dimes, 1 nickel, and 3 pennies. How much money does Jack have?

18. It is 6:05. What time will it be in 4 hours and 10 minutes?
19. $1\frac{5}{6} + 4\frac{1}{3} = ?$
20. $3{,}265 \times 5 = ?$

Lesson #4

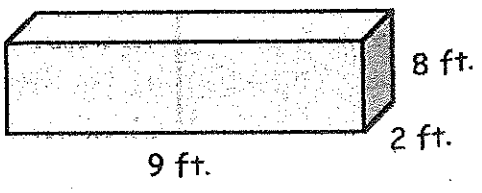
1. $9\frac{2}{7} - 6\frac{5}{7} = ?$
2. $3{,}265{,}818 + 9{,}375{,}962 = ?$
3. What is the length of the line segment in inches?



4. $\frac{5}{12} \times \frac{24}{25} = ?$
5. Draw parallel lines.
6. $80{,}000 - 69{,}214 = ?$
7. On a miniature golf course, the distance from the tee to the 1st hole is 96 inches. The distance to the 2nd hole is 3 yards. On the 3rd tee, the hole is 12 feet away. Which of the tees is farthest from the hole?
8. Write $\frac{7}{20}$ as a decimal and as a percent.
9. Write the formula for finding the volume of a prism.
10. What number is 80% of 30?
11. How many years are 7 decades?
12. $\frac{7}{8} \div \frac{2}{5} = ?$
13. Write the reciprocal of $\frac{3}{7}$.
14. Find $\frac{1}{6}$ of 72.
15. Put $\frac{15}{20}$ in simplest form.
16. $(30 \times 7) \div 3 = ?$
17. What percent of 70 is 49?
18. If $3x = 21$, what is the value of x?
19. Is the more reasonable length of a pick-up truck 40 km or 40 m?
20. List the factors of 18.

Lesson #5

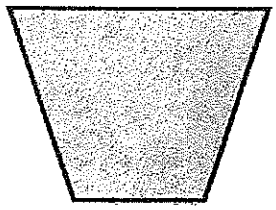
1. How many feet are in 2 miles?
2. $76 \times 24 = ?$
3. $1\frac{4}{7} + 2\frac{2}{3} = ?$
4. Draw a ray.
5. $900 - 644 = ?$
6. Find the average of 37, 36, 76, 84 and 37.
7. Write the formula for finding the area of a parallelogram.
8. $62.89 + 7.3 = ?$
9. How many millimeters are 8 meters?
10. Jason delivers newspapers on Saturdays and Sundays only. Each newspaper weighs about 1 pound, 9 ounces. If he delivers 24 newspapers each day, how much do the two days of newspapers weigh? Write your answer in pounds and ounces.
11. $2.92 \div 0.8 = ?$
12. Find $\frac{2}{5}$ of 15.
13. Water boils at _____ degrees Fahrenheit.
14. A triangle with no sides congruent is a(n) _____ triangle.
15. Define *circumference*.
16. Draw 2 similar squares.
17. Find the GCF of 8 and 12.
18. Write 36.42 using words.
19. Find the volume of the rectangular prism.



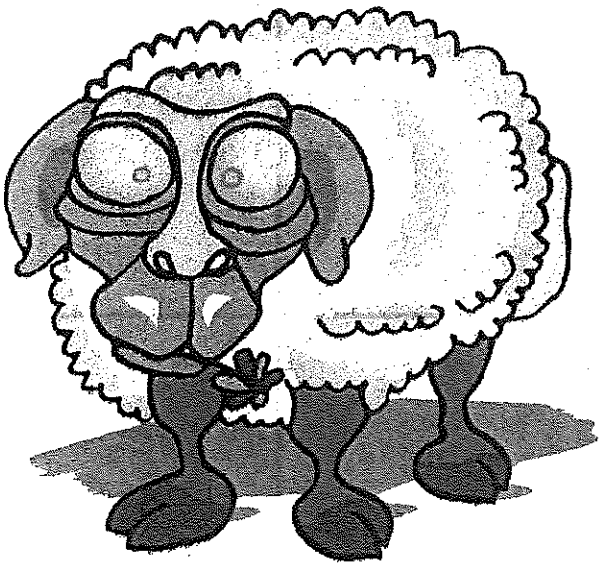
20. $9 - 6\frac{3}{7} = ?$

Lesson #6

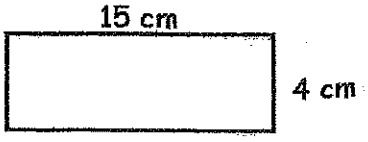
1. Round 87,365,241 to the nearest ten million.
2. Write $\frac{7}{20}$ as a decimal and as a percent.
3. If it is 4:40 now, what time was it 5 hours and 15 minutes ago?
4. $347 + 659 = ?$
5. Draw a straight angle and tell how many degrees are in a straight angle.
6. What is 30% of 200?
7. What is the name of this shape?



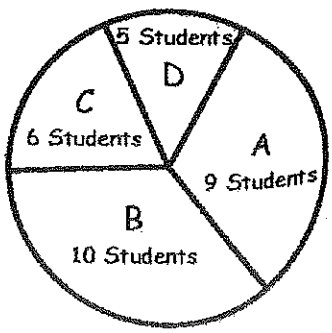
8. $\frac{2}{5} \times \frac{15}{18} = ?$
9. Write the standard number for *eighteen and forty-three thousandths*.
10. $2\frac{1}{2} \times 3\frac{3}{10} = ?$



11. $0.004 \times 0.03 = ?$
12. Write the ratio $\frac{5}{6}$ in another way.
13. Solve the proportion for x. $\frac{15}{x} = \frac{6}{4}$
14. $6\frac{1}{5} + 9\frac{2}{3} = ?$
15. Make a factor tree for 32.
16. The ratio of adults to children at a park is 2 to 5. If there are 24 adults, how many children are at the park?
17. The rectangle shown to the right has what area?

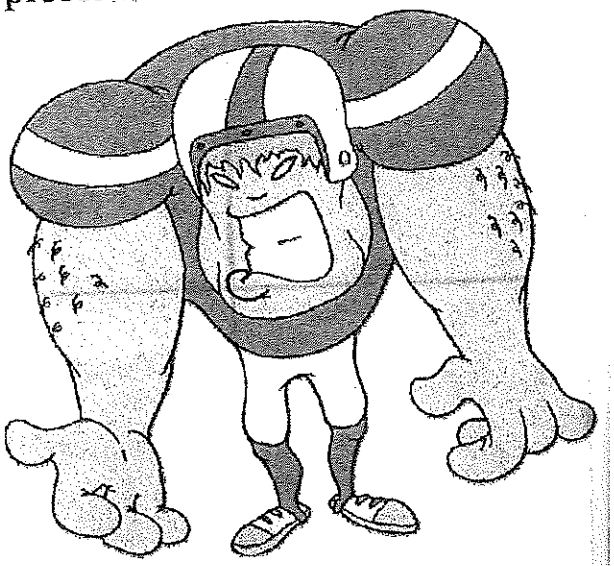


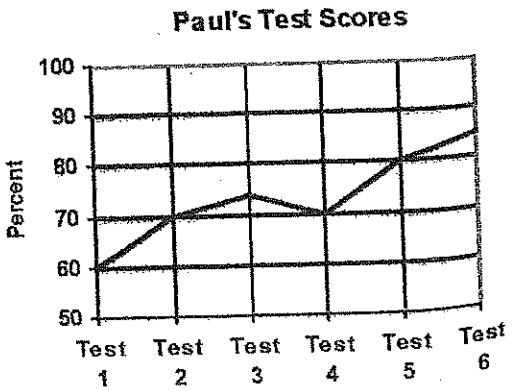
18. According to the pie chart, how many more students earned an A or B than earned a C or D?
19. What fraction of the students in the class earned an A?
20. Write 0.14 as a percent and as a reduced fraction.



Lesson #7

1. $\frac{2}{3} \times \frac{9}{12} = ?$
2. $0.15 \times 0.06 = ?$
3. $6{,}000 - 1{,}974 = ?$
4. Write the formula for finding the area of a triangle.
5. What do we call the answer in a division problem?
6. Is the number 2 prime or composite?
7. How many inches are in 3 yards?
8. $\frac{8}{10} \bigcirc \frac{9}{11}$
9. 70% of 80 is what number?
10. Water boils at _____ degrees Celsius.
11. List the factors of 15.
12. Solve the proportion for x. $\frac{5}{8} = \frac{30}{x}$
13. $20.25 \div 5 = ?$
14. Write 0.44 as a percent and as a reduced fraction.
15. List the first 5 prime numbers.
16. Round 9,633,202 to the nearest million.
17. Write $9\frac{2}{3}$ as an improper fraction.
18. Find the area and the perimeter of a square if a side measures 8 feet.
19. $6\frac{5}{6} + 8\frac{1}{4} = ?$
20. On which test did Paul score an 85%? What is Paul's average test score? On which tests did he get the same score?





Lesson #8

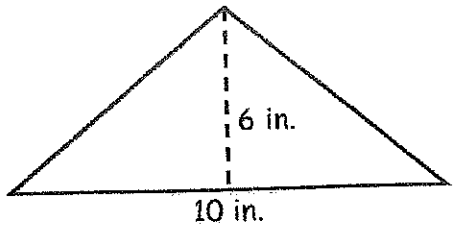
1. Find $\frac{2}{3}$ of 18.
2. $0.322 \bigcirc 0.30$
3. How many ounces are in 5 pounds?
4. $86.2 + 4.75 + 23.8 = ?$
5. $70{,}000 - 39{,}156 = ?$
6. Round 6.573 to the nearest hundredth.
7. Make a factor tree for 50.
8. What is the mode of Rachel's scores?
9. What is Rachel's average?
10. Find 60% of 90.
11. $\frac{5}{8} + \frac{3}{4} = ?$
12. How many centimeters are in 8 meters?
13. $2\frac{5}{6} - 1\frac{2}{6} = ?$
14. 70% of what number is 21?
15. Put $\frac{12}{15}$ in simplest form.
16. **The probability of getting heads, heads, tails on 3 flips of a coin is written P(H, H, T) and is calculated by ½ · ½ · ½ = 1/8.** What is the P(H, T, T, H) on four flips of a coin?
17. $0.015 \times 0.06 = ?$
18. Put these decimals in increasing order. (Hint: from least to greatest)
    1.6 1.062 1.63 1.006
19. Water freezes at _____ degrees Fahrenheit.
20. Monica had 40 pencils. She gave $\frac{1}{5}$ of the pencils to her sister and $\frac{1}{4}$ of them to her brother. How many pencils did Monica have left?

Rachel's Quiz Scores

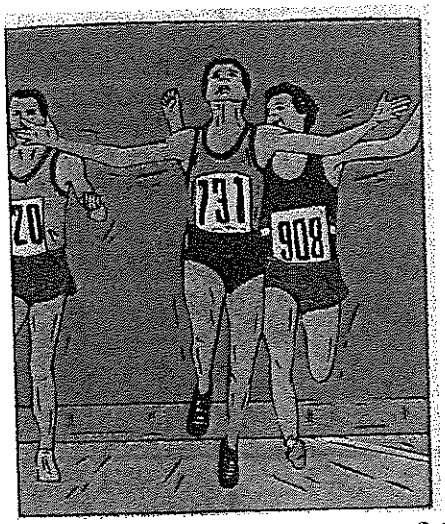
Stem	Leaf
6	8
7	5 5 9
8	8 9
9	3 7

Lesson #9

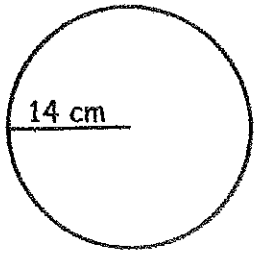
1. How many feet are in 4 miles?
2. $\frac{3}{8} \times \frac{12}{15} = ?$
3. Find the area of the triangle.



4. $86{,}324 + 47{,}788 = ?$
5. $7 - 5\frac{3}{7} = ?$
6. How many nickels are in $5?
7. Figures having the same shape but with different sizes are _____.
8. $56.55 \div 0.05 = ?$
9. $3{,}643 \times 4 = ?$
10. 15 is what percent of 50?
11. A triangle with no congruent sides is a _____ triangle.
12. Find $\frac{3}{5}$ of 25.
13. $0.5 - 0.3764 = ?$

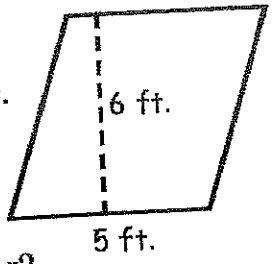


14. There are 22 schools at the regional track meet, with an average of 12 students on each team. About how many students are at the track meet?
15. Make a factor tree for 24.
16. $\frac{3}{8} \div \frac{1}{3} = ?$
17. $1\frac{1}{5} + 3\frac{3}{10} = ?$
18. $0.006 \times 0.002 = ?$
19. Draw intersecting lines.
20. Find the area of this circle. (Hint: Area $= \pi r^2$)

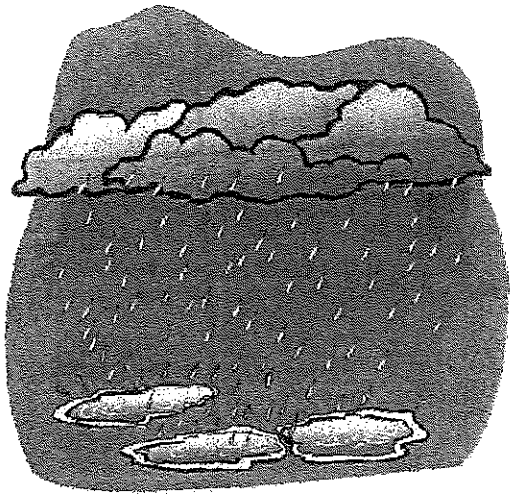


Lesson #10

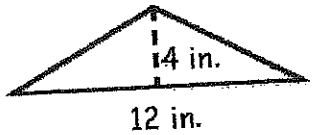
1. It is 1:30 now. What time was it 5 hours and 30 minutes ago?
2. $34.6 + 17.95 = ?$
3. Find the area of the figure.



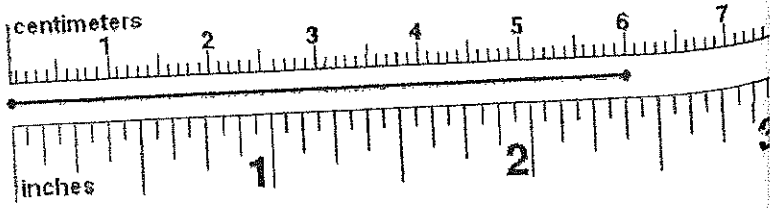
4. Find $\frac{2}{7}$ of 14.
5. 30% of 60 is what number?
6. Draw perpendicular lines.
7. $501 - 287 = ?$
8. Write $\frac{3}{20}$ as a decimal and as a percent.



9. How many minutes are in 4 hours?
10. On Monday 6.324 cm of rain fell; 7.85 cm fell on Tuesday. How much rain fell during the two days? Round your answer to the nearest tenth.
11. The length of a road can best be measured in meters or kilometers?
12. Find the median of 13, 27, 62, 18 and 37.
13. The answer to a multiplication problem is the _____.
14. $1\frac{2}{5} + 3\frac{1}{10} = ?$
15. Find the area of the triangle.



16. Solve for x. $\frac{3}{5} = \frac{18}{x}$
17. Find the LCM of 5, 10 and 15.
18. $\frac{8}{9} \bigcirc \frac{10}{11}$

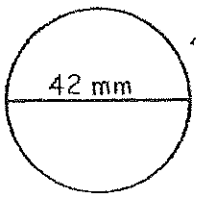


19. $\frac{8}{9} \times \frac{12}{16} = ?$
20. Use the rulers shown to find the length of this line segment in inches and in centimeters.

Lesson #11

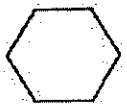
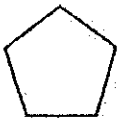
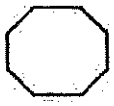
1. Water boils at _____°C.
2. Which digit is in the ten thousandths place in 4.6037?
3. 34,641 + 86,759 = ?
4. $4 - 2\frac{2}{5} = ?$
5. Round 4,765,214 to the nearest hundred thousand.
6. Draw a ray.
7. Hilary and Marta made a one-gallon pitcher of fruit punch. They drank 5 glasses that held 2 cups each. How much punch was left in the pitcher?
8. If it is 9:30 now, what time was it 90 minutes ago?
9. Find the estimated difference between 3,465 and 2,716.
10. How many milliliters are in 6 liters?
11. What is the volume of a rectangular prism if the length is 9 feet, the width is 4 feet, and the height is 3 feet?
12. In a class of 27 students, nine students received an A on their math tests. What fraction of the students received an A?
13. What is the fifth number in the sequence: 19, 26, 33, ...?
14. What is the P(H, H, H, T, T) on five flips of a coin?
15. Write $4\frac{3}{10}$ as a decimal.
16. What do we call the distance around the outside of a circle?
17. Name this type of angle.

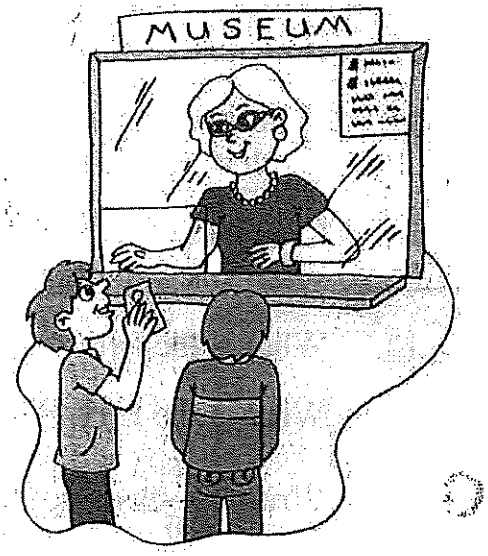
18. Put $\frac{14}{21}$ in simplest form.
19. Find the circumference of this circle.



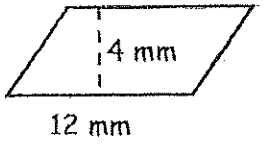
20. On the Fahrenheit temperature scale, water boils at _____.

Lesson #12

1. $37 \times 45 = ?$
2. Find the area of a square if a side measures 15 feet.
3. Write 6.54 in words.
4. Charlie's puppy weighs 4 pounds and 5 ounces. What is the puppy's weight in ounces?
5. Name each polygon. a.  b.  c. 
6. $\frac{8}{10} \div \frac{4}{10} = ?$
7. The 3rd grade class at Jefferson Elementary is going on a field trip. The school requires one adult for every 15 students. If there are 270 third graders going on the field trip, how many adults will be needed?
8. How many days are there in 8 weeks?
9. What number is 70% of 20?
10. $0.45 - 0.1263 = ?$
11. What percent of 50 is 45?
12. If the radius of a circle is 5 meters, what is the diameter?
13. $5\frac{2}{3} + 4\frac{1}{2} = ?$
14. Round 13.74 to the nearest tenth.



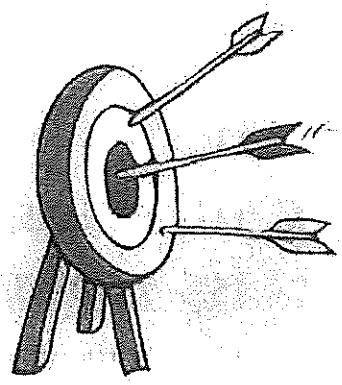
15. Write the following sentence using digits and symbols.
The sum of fifty-six and thirty-two is eighty-eight.
16. What is the name for the shape of a ball?
17. Is the number 15 prime or composite?
18. $0.300 \div 4 = ?$
19. Find the area of the parallelogram.



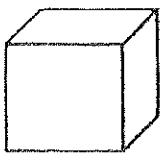
20. Define *perimeter*.

Lesson #13

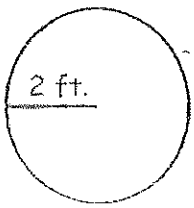
1. $\frac{4}{7} \times \frac{14}{16} = ?$
2. Find $\frac{1}{7}$ of 49.
3. Estimate the product of 82 and 79.
4. Find 30% of 50.
5. The area of a square is 81 ft^2. What is the length of each side?
6. Put these decimals in decreasing order.
   1.62 1.062 1.2 1.026
7. Write the standard number for 800,000 + 4,000 + 600 + 40 + 2.
8. Find the LCM of 12 and 18.
9. 80% of what number is 24?
10. What is the area of a triangle if its base is 9 cm and its height is 8 cm?
11. Put these integers in order from least to greatest.
    −31, −15, −86, −55
12. How many meters are in 900 centimeters?
13. Mike's arrow hit a target 25 yards away. How many feet did the arrow travel?
14. $0.05 \times 0.07 = ?$
15. Find the median of 18, 26, 17, 34 and 56.
16. On an archery team, the ratio of boys to girls is 6 to 4. If there are 12 boys on the team, how many girls are there?



17. Allison sleeps 8 hours a day. What fraction of the day does she sleep?
18. Water freezes at _____ °F.
19. Identify the shape to the right.

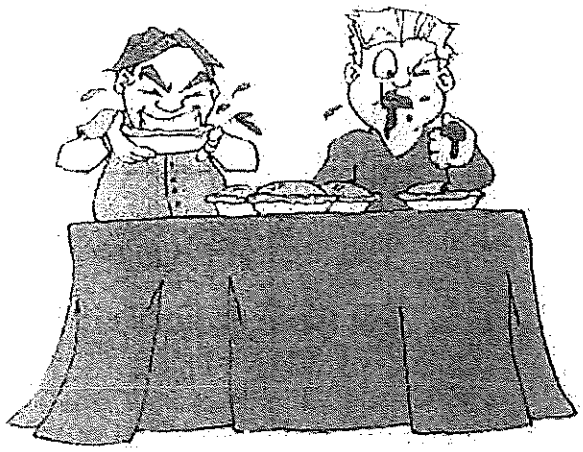


20. Find the circumference and the area of this circle.



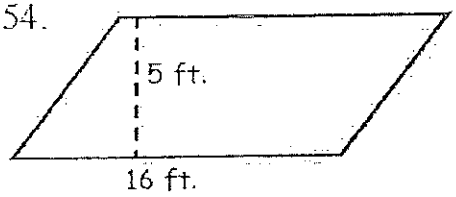
Lesson #14

1. $2\frac{2}{7} - 1\frac{5}{7} = ?$
2. Find $\frac{3}{5}$ of 25.
3. Draw perpendicular lines.
4. $86.2 - 19.46 = ?$
5. Find the perimeter of a rectangle that is 9 cm long and 4 cm wide.
6. $\frac{5}{6} \times \frac{12}{15} = ?$
7. Rename $7\frac{2}{5}$ as an improper fraction.
8. What do we call *the number that occurs most often* in a set of numbers?
9. $\frac{5}{7} \bigcirc \frac{8}{9}$
10. What is the P(2, 5, 4) on three rolls of a die?
11. Put $\frac{12}{15}$ in simplest form.
12. Write 0.16 as a reduced fraction and as a percent.
13. $1\frac{1}{2} \div \frac{3}{4} = ?$
14. Which digit is in the thousandths place in 19.306?
15. $7{,}020 - 3{,}562 = ?$
16. Write the time 10 minutes before midnight.
17. $36{,}249 + 47{,}581 = ?$
18. Put these integers in order from greatest to least. $34, -16, 0, -41, 12$
19. Write the reciprocal of $\frac{5}{7}$.
20. Joe ate 7 pies on Wednesday. If that is only $\frac{1}{4}$ of the world record for pie-eating, what is the world record?

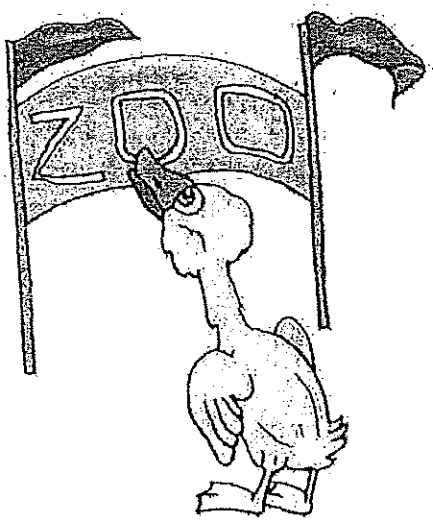


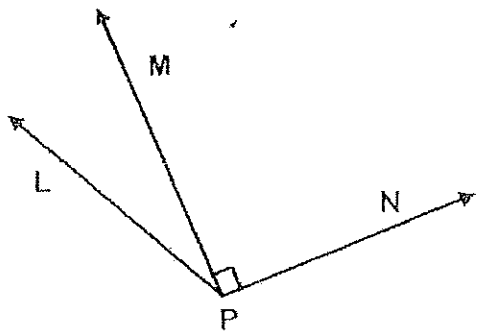
Lesson #15

1. $9 - 2\frac{4}{5} = ?$
2. $47.5 - 39.68 = ?$
3. $6{,}419{,}277 + 4{,}876{,}435 = ?$
4. Find the average of 113, 29, 36, 18 and 54.
5. How many feet are in 3 miles?
6. Find the area of the parallelogram.



7. The price of admission to the zoo is $8.00. Today's special is 20% off the price of each ticket. What is the discounted price of a ticket?
8. Round 4.673 to the nearest tenth.
9. Closed figures made up of line segments are _____.
10. Find 20% of 18.
11. What year is 3 decades before 1963?
12. List the factors of 18.
13. $4\frac{1}{5} + 3\frac{1}{3} = ?$
14. What is the P(T, T, T) on three flips of a coin?
15. 0.459 ◯ 0.45
16. Write 55% as a reduced fraction.
17. $16.90 \div 1.3 = ?$
18. Seven centuries are how many years?
19. If $4n = 16$, then what is the value of n?
20. **Use the figure to the right.**
    a) Name a right angle.
    b) Name an acute angle.
    c) Name an obtuse angle.





1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.

Help Pages

Vocabulary (continued)

Geometry — Circles

circumference — the distance around the outside of a circle.

diameter — the widest distance across a circle. The diameter always passes through the center.

radius — the distance from any point on the circle to the center. The radius is half of the diameter.

Geometry — Polygons

Number of Sides	Name	Number of Sides	Name
3 	triangle	7 	heptagon
4 	quadrilateral	8 	octagon
5 	pentagon	9 	nonagon
6 	hexagon	10 	decagon

Geometry — Triangles

equilateral — a triangle in which all 3 sides have the same length.

isosceles — a triangle in which 2 sides have the same length.

scalene — a triangle in which no sides are the same length.

Measurement — Relationships

Volume	Distance
3 teaspoons in a tablespoon	36 inches in a yard
2 cups in a pint	1,760 yards in a mile
2 pints in a quart	5,280 feet in a mile
4 quarts in a gallon	100 centimeters in a meter
Weight	1,000 millimeters in a meter
16 ounces in a pound	**Temperature**
2,000 pounds in a ton	0°Celsius – freezing point
Time	100°Celsius – boiling point
10 years in a decade	32°Fahrenheit – freezing point
100 years in a century	212°Fahrenheit – boiling point

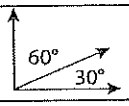
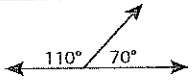
Ratio and Proportion

proportion — a statement that two ratios (or fractions) are equal. **Example:** $\frac{1}{2} = \frac{3}{6}$

percent (%) —the ratio of any number to 100. **Example:** 14% means 14 out of 100 or $\frac{14}{100}$.

Help Pages

Vocabulary

General
absolute value — the distance between a number, x, and zero on a number line; written as $\|x\|$. **Example:** $\|5\| = 5$ reads "The absolute value of 5 is 5." $\|-7\| = 7$ reads "The absolute value of -7 is 7."
expression — a mathematical phrase written in symbols. **Example:** $2x + 5$ is an expression.
function — a rule that pairs each number in a given set (the domain) with just one number in another set (the range). **Example:** The function $y = x + 3$ pairs every number with another number that is larger by 3.
greatest common factor (GCF) — the highest factor that 2 numbers have in common. **Example:** The factors of 6 are 1, 2, **3**, and 6. The factors of 9 are 1, **3**, and 9. The GCF of 6 and 9 is 3.
integers — the set of whole numbers, positive or negative, and zero.
irrational number — a number that cannot be written as the ratio of two whole numbers. The decimal form of an irrational number is neither terminating nor repeating. **Examples:** $\sqrt{2}$ and π.
least common multiple (LCM) — the smallest multiple that 2 numbers have in common. **Example:** Multiples of 3 are 3, 6, 9, **12**, 15... Multiples of 4 are 4, 8, **12**, 16... The LCM of 3 and 4 is 12.
matrix — a rectangular arrangement of numbers in rows and columns. Each number in a matrix is an element or entry. The plural of matrix is matrices. **Example:** $\begin{pmatrix} 2 & 3 \\ 0 & -1 \end{pmatrix}$ is a matrix with 4 elements.
rational number — a number that can be written as the ratio of two whole numbers. **Example:** 7 is rational; it can be written as $\frac{7}{1}$. 0.25 is rational; it can be written as $\frac{1}{4}$.
slope — the ratio of the *rise* (vertical change) to the *run* (horizontal change) for a non-vertical line.
square root — a number that when multiplied by itself gives you another number. The symbol for square root is $\sqrt{x}$. **Example:** $\sqrt{49} = 7$ reads "The square root of 49 is 7."
term — the components of an expression, usually being added to or subtracted from each other. **Example:** The expression $2x + 5$ has two terms: $2x$ and 5. The expression $3n^2$ has only one term.
Geometry
acute angle — an angle measuring less than 90°.
complementary angles — two angles whose measures add up to 90°. 
congruent — figures with the same shape and the same size.
obtuse angle — an angle measuring more than 90°.
right angle — an angle measuring exactly 90°.
similar — figures having the same shape, but different size.
straight angle — an angle measuring exactly 180°.
supplementary angles — two angles whose measures add up to 180°. 
surface area — the sum of the areas of all of the faces of a solid figure.

Help Pages

Vocabulary

Arithmetic Operations
difference — the result or answer to a subtraction problem. **Example:** The difference of 5 and 1 is 4.
product — the result or answer to a multiplication problem. **Example:** The product of 5 and 3 is 15.
quotient — the result or answer to a division problem. **Example:** The quotient of 8 and 2 is 4.
sum — the result or answer to an addition problem. **Example:** The sum of 5 and 2 is 7.
Factors and Multiples
factors — are multiplied together to get a product. **Example:** 2 and 3 are factors of 6.
multiples — can be evenly divided by a number. **Example:** 5, 10, 15 and 20 are multiples of 5.
composite number — a number with more than 2 factors. **Example:** 10 has factors of 1, 2, 5, and 10. Ten is a composite number.
prime number — a number with exactly 2 factors (the number itself and 1). **Example:** 7 has factors of 1 and 7. Seven is a prime number.
greatest common factor (GCF) — the highest factor that 2 numbers have in common. **Example:** The factors of 6 are 1, 2, **3**, and 6. The factors of 9 are 1, **3**, and 9. The GCF of 6 and 9 is **3**.
least common multiple (LCM) — the smallest multiple that 2 numbers have in common. **Example:** Multiples of 3 are 3, 6, 9, **12**, 15... Multiples of 4 are 4, 8, **12**, 16... The LCM of 3 and 4 is **12**.
prime factorization — a number, written as a product of its prime factors. **Example:** 140 can be written as $2 \times 2 \times 5 \times 7$ or $2^2 \times 5 \times 7$.
Fractions and Decimals
improper fraction — a fraction in which the numerator is larger than the denominator. **Example:** $\frac{9}{4}$
mixed number — the sum of a whole number and a fraction. **Example:** $5\frac{1}{4}$
reciprocal — a fraction where the numerator and denominator are interchanged. The product of a fraction and its reciprocal is always 1. **Example:** The reciprocal of $\frac{3}{5}$ is $\frac{5}{3}$. $\frac{3}{5} \times \frac{5}{3} = \frac{15}{15} = 1$
repeating decimal — a decimal in which a number or a series of numbers continues on and on.
Example: 2.33333333, 4.151515151515, 7.125555555, etc.
Geometry
acute angle — an angle measuring less than 90°.
congruent — figures with the same shape and the same size.
obtuse angle — an angle measuring more than 90°.
right angle — an angle measuring exactly 90°.
similar — figures having the same shape, but different size.
straight angle — an angle measuring exactly 180°.

Who Knows???

Degrees in a right angle? .....(90)

A straight angle? .....(180)

Angle greater than 90°? ..... (obtuse)

Less than 90°? .....(acute)

Sides in a quadrilateral? .....(4)

Sides in an octagon?..... (8)

Sides in a hexagon? .....(6)

Sides in a pentagon? .....(5)

Sides in a heptagon? .....(7)

Sides in a nonagon? ..... (9)

Sides in a decagon?..... (10)

Inches in a yard? .....(36)

Yards in a mile? .....(1,760)

Feet in a mile? .....(5,280)

Centimeters in a meter? .....(100)

Teaspoons in a tablespoon? ..... (3)

Ounces in a pound? .....(16)

Pounds in a ton?.....(2,000)

Cups in a pint? ..... (2)

Pints in a quart? ..... (2)

Quarts in a gallon? .....(4)

Millimeters in a meter? ..... (1,000)

Years in a century? .....(100)

Years in a decade?.....(10)

Celsius freezing? .....(0°C)

Celsius boiling? .....(100°C)

Fahrenheit freezing? .....(32°F)

Fahrenheit boiling? .....(212°F)

Number with only 2 factors? .... (prime)

Perimeter? .....(add the sides)

Area? .....(length x width)

Volume? ..... (length x width x height)

Area of parallelogram?.....
..... (base x height)

Area of triangle? .....($\frac{1}{2}$ base x height)

Area of trapezoid?.....
.....($\frac{\text{base} + \text{base}}{2} \times \text{height}$)

Surface area of a rectangular prism? .....2(lw) + 2(wh) + 2(lh)

Area of a circle? .....(πr^2)

Circumference of a circle? .....(πd)

Triangle with no sides equal? .....
..... (scalene)

Triangle with 3 sides equal?.....
.....(equilateral)

Triangle with 2 sides equal? .....
..... (isosceles)

Distance across the middle of a circle?
..... (diameter)

Half of the diameter? ..... (radius)

Figures with the same size and shape? ..... (congruent)

Figures with same shape, different sizes? .....(similar)

Number occurring most often? .....
..... (mode)

Middle number? .....(median)

Answer in addition? .....(sum)

Answer in division? .....(quotient)

Answer in multiplication? .....(product)

Answer in subtraction? .....(difference)