Super

Understanding of

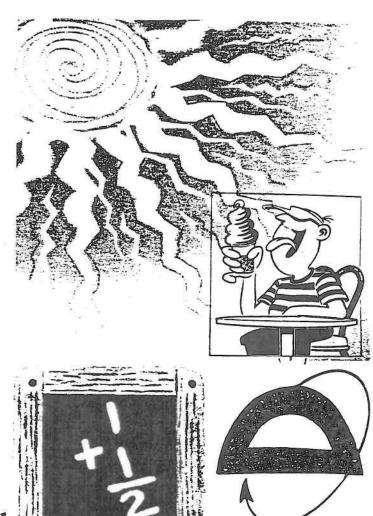
Mathematics

Magnifies

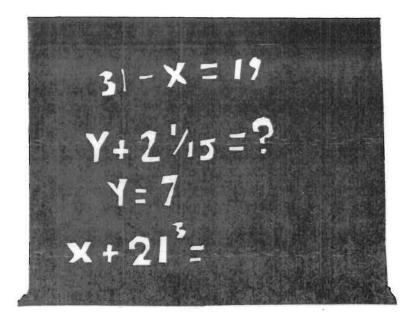
Everything

Reviewed in school

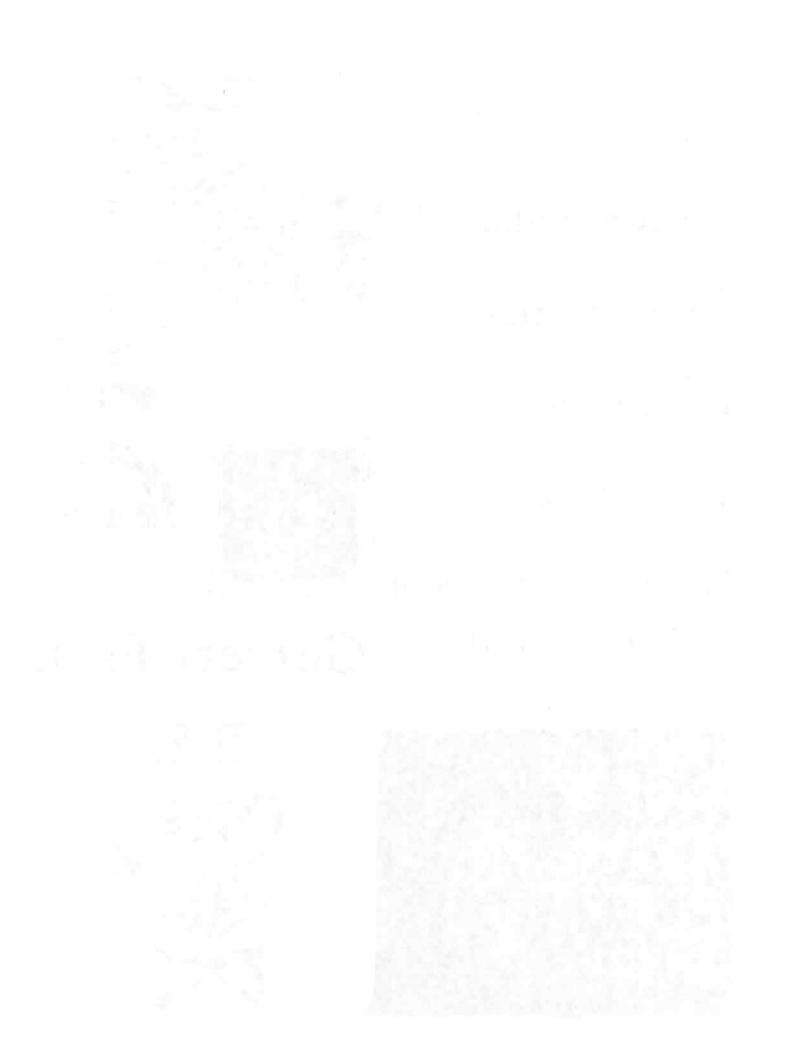
Fourth Grade



Garrett Park





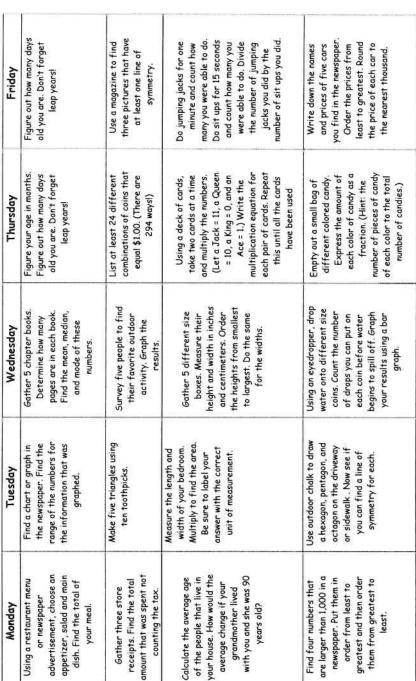




Summer Math Calendar

Soing into Fifth Grade





Schemioldy



MATH ACTIVITIES YOU CAN DO AT HOME

The bold words at the beginning of each activity indicate the focus or skilled covered.

1. **ESTIMATE:** Children practice estimation in real life situations and explain how they came to that conclusion.

For Example:

- Have your child estimate the cost of a few items when you go to the supermarket.
- Have your child estimate how long (miles) and/or the time it will take to get to a certain destination when traveling.
- Estimate how much the bill might be at a restaurant.
- Estimate how much it will cost to fill the car with gasoline.

2. PERFORMING A TASK:

For Example:

- Cook with your children. Ask them to read the recipe, measure out the out the
 ingredients and follow all the instructions. Ask them to restate the procedure in
 their own words. * As a challenge have them calculate the portions of each
 ingredient for doubling or tripling a recipe.
- Play board games with your children. Have them read the directions and explain how to play the game.
- Talk to your child about the sequence of events of their day. They should be able to explain events using detail and support any conclusions about what has happened. Can they use vocabulary specific to the topic when speaking?
- 3. **DECISION-MAKING, MAKING CHANGE, EXPLAINING THINKING:** Children must make decisions, this is an opportunity for your child to explain their thinking why they chose that strategy or solution.

For Example:

- While playing games involving money, have your children be the "banker" and use addition and subtraction strategies for giving change.
- Pay a cashier the proper amount of money that is owed or count change from a purchase.
- Ask your child to budget the cost for your family for an activity based on the fare or fee for one person.
- 4. INTREPRETING DATA: Have your child scan the newspaper for charts, tables, and graphs. Ask your child to interpret these data displays and identify the important elements of them. Ask questions related to the charts, tables, and graphs.
- 5. TIME Students should tell time using a clock with hands. Review with them certain times of the day getting up, meals, going to bed. Also, refer to morning and evening times (A.M. and P.M.). Also, refer to the days of the week and the months of the year, using a calendar.

Other activities:

- Determine the amount of time taken to complete certain activities over the course of several days, a week, or a month.
- When planning a family activity, ask your child how much time will be needed to do an activity what time will it start and finish.
- Ask about the amount of time for cooking/baking foods.
- Calculate how many days, hours, minutes, and even seconds old a person is.

6. **CONNECTIONS TO REAL LIFE EXPERIENCES:** Applying math concepts in real life experiences. This will make math more meaningful to your child if they see how the skills and concepts they have learned in class can be applied outside the classroom.

For Example:

- Use of fractions in cooking, find them in the newspaper
- Measurement use a measuring tape or rule to measure different objects around your home.
- Identify examples of different shapes in your home and your surroundings circle, square, rectangle, triangle, sphere, cylinder, cube, etc.
- Identify examples of horizontal, vertical, parallel, intersecting, and perpendicular lines (example telephone wires and streets)
- Figure out the tax to add on the purchase of items or food.
- 7. PROBLEM SOLVE: Managing multi-step problems. Is your answer correct and thorough? Is your child using math vocabulary to solve the problems? Can they answer questions that begin "How to...? "When do you...? What operation do you use and why?
- 8. BASIC MATH FACTS AND COMPUTATION SKILLS: Practice math facts with your child. They can make flash cards and practice just a few minutes a day.
- 9. WEBSITES TO EXPLORE: see back of calendar for websites

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http://www.allmath.com/

This site has flash cards and links to other sites for games, math humor, worksheets, math help and more.

http://www.aplusmath.com

This site has basic facts flash cards and a game room, worksheets, multiplication table practice and more.

nttp://www.mathfactcafe.com

This site has a pencil next to pre-made cards so kids can do the facts and have the computer check them. Kids can print them out and also put in their own numbers and make their own worksheets.

http://www.funbrain.com

This site has easier to harder addition and subtraction computation and problem solving. It also has language and grammar skills activities

http://www.dositey.com/

This site is a lot of fun and is good for 2 digit addition with and without regrouping

http://www.24game.com

This site has math games using basic operations

http://www.coolmath4kids.com

This site has a wide range of topics and will give you step-by-step instructions.

http://www.abc.net.au/countusin/games

Each game is designed to help kids understand basic concepts in math. This site has a variety of math games i.e. volume, length, halves, chance, numbers, time, sorting, subtraction, and addition. It is better for students of the primary grades.

http://www.learningplanet.com

This site has games by grade level but with advertisement and a subscription. There are some free games.

http://www.gamequarium.com

This site has math activities for K-6.

http://www.SETGame.com

This is a card game to build students' visual thinking and pattern skills in math. Commercial, but does have some great free puzzles.

http://www.math.com

Good resource of how to do problems

http://www.mathcats.com

This is an interactive fun site

http://www.spikesgamezone.com

Lots of math games

http://www.funschool.com

This site has games, but also commercial advertising

http://www.figurethis.org

This site gives you ideas for fun hands-on math activities. Good for upper grades

http://www.kidsites.com

List of sites for math as well as other subjects.

http://timezattack.com

FREE home version for practicing multiplication facts (also new versions for division, addition, and subtraction!)

http://abcya.com

Loads of math games for K-5 as well as games for reading and language arts

Find the Mystery Numbers

The mystery number has...

- a 4 in the ten thousands place.
- a 5 in the hundred thousands place
- a 3 in the tens place
- a 2 in the ones place
- a 0 in the hundreds place
- a 6 in the thousands place

What is the mystery number?

The mystery number has...

- a 1 in the ones place
- a 7 in the hundred thousands place
- a 7 in the tens place
- an 8 in the ten thousands place
- a 9 in the thousands place
- a 2 in the hundreds place

What is the mystery number?

The mystery number has...

- a 9 in the ten thousands place
- a 0 in the thousands place
- an 8 in the hundred thousands place
- a 0 in the ones place
- an 8 in the hundreds place
- a 2 in the tens place

What is the mystery number?

Nam	e			Date	9.		#
	Numbers to Base 10 Formative						
1.	Millions	Hundred Thousand	Ten Thousand	Thousand	Hundreds	Tens	Ones
	2	21	0	46	5	12	3
Wha	t number am]	in standard f	orm?	- 14tic - 1 - 14tic - 1			****
		ber in standar					
93 te	ns =	34	hundreds = _		25 thousands =		
3. 1	Make a new nu	ımber using th	ne digits 2, 4, 9	9, 7, 6, 3, 1			
Wha	t is your numb	er in standard	form?				
Wna [.]	t is your nume	er in expande	d form?			-	
Wha	t is your numb	per in word fo	rm?				
Иhу	is it possible t	o use the digi	ts 0-9 to write	any number?			
	(*****	17 1500 x					
		· · · · · · · · · · · · · · · · · · ·					
Com	pare the num	pers 105,421 ar	nd 150,421. Yo	u may use < (le	ess than), > (gre	ater than) o	r = in your
expla	anation.						

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4. Round each number to the und	erlined digit.	
6,714=	86, <u>9</u> 96=	
40 <u>1</u> ,961=	7 <u>7</u> 9,948=	
5. Sally and her best friend, I up \$12,584 and Elizabeth save (estimate) \$45,000. Is that a n	d up \$23,459. They think th	buy a business. Sally saved ey saved up ABOUT
5. Solve the equations.		
203,687+4,999	268,403+?=725,865	90,531+192+489,687
572,312-40,867	340,047-258,062	20,006-19,998

Name:		
1401110		

Rounding

a. What is 33 rounded to the nearest ten?	a
b. What is 850 rounded to the nearest hundred?	b
c. What is 429 rounded to the nearest ten?	c
d. What is 923 rounded to the nearest hundred?	d
e. What is 248 rounded to the nearest ten?	e
f. What is 160 rounded to the nearest hundred?	f
g. What is 57 rounded to the nearest ten?	g
h. What is 47 rounded to the nearest hundred?	h
i. What is 52 rounded to the nearest hundred?	i
j. What is 845 rounded to the nearest ten?	j
k. What is 953 rounded to the nearest hundred?	k
I. What is 2,345 rounded to the nearest ten?	
m. What is 1,468 rounded to the nearest hundred?	m
n. What is 6,789 ronded to the nearest ten?	n
o. What is 9,032 rounded to the nearest hundred?	0
p. What is 5,565 rounded to the nearest ten?	p
q. What is 888 rounded to the nearest hundred?	q
r. What is 8,699 rounded to the nearest ten?	r
s. What is 9,990 rounded to the nearest hundred?	S,
t. What is 3,419 rounded to the nearest ten?	t

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Compose and Compare

Compose numbers from the values in the tables. Write the numbers in standard form. Write a number sentence comparing the numbers.

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,	_	٦	٠	

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones		Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
9	8	0	10	2	3	<,>,=	8	18	0	8	1	9
								l		<u> </u>	l	

В.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
0	24	14	8	0	75

<,	>,	=
	<,	<,>,

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
2			17	17	8

C.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1	0	0	325	9	7

<,	>,	=
,	,	

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
0	13	0	25	0	9

D.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	
8	0	198	8	0	148	

<,	>,	=
7	,	

	Hundred Thousand	Ten Thousand	Thousand	Hundreds	Tens	Ones
25,000	9	0	99	0	95	0

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Compose and Compare

Compose numbers from the values in the tables. Write the numbers in standard form. Write a number sentence comparing the numbers.

E.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones		Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
0	0	354	15	0	16	<,>,=	3	5	5	0	51	6

F.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	_
0	24	14	8	0	75	<

<,	>,	=	
- 1	-)		

Hundred	Thousands	Ten	Thousands	Thousands	Hundreds	Tens	Ones
2	2	į	5	3	17	17	8

G.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
3	14	46	0	90	0

>,	=
	>,

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
3	10	45	9	0	1

H.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
9	0	16	6	5	0

<,	>,	=
,	,	

Hundred	Ten Thousands	Thousands	Hundreds	Tens	Ones
9	0	0	167	95	0

investme 2 bases surroused



Flying High

	Atlanta	ki.			
Boston	946	Boston			
Chicago	606	867	Chicac	30	
Dallas	721	1,555	796	Dallas	
Denver	1,208	1,767	901	654	Denver
Detroit	505	632	235	982	1,135

Use the air distance chart above to write a number sentence for each problem. Then solve.

- 1. How many more miles does it take to get from Denver to Atlanta than to get from Detroit to Atlanta and Chicago to Atlanta combined?
- 2. Jorge flew from Dallas to Detroit, from Detroit to Denver, and from Denver back to Dallas. How many miles did Jorge fly altogether?
- 3. Maria flew from her home city of Boston to Atlanta, back home to Boston, and then back to Atlanta. How many miles did she fly altogether?
- 4. How many more miles is it to fly round-trip between Dallas and Boston than between Denver and Chicago?

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Name	Date	

Use drawings or equations to represent how you solved each problem.

1. Nick brings 24 plates to the party.

He brings 3 times as many plates as Morgan.

How many plates does Morgan bring to the party?

2. Sara brings 18 bowls to the party.

Mark brought some more bowls to the party.

Now there are 32 bowls.

How many bowls does Mark bring to the party?

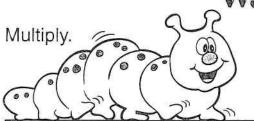
3. Susan brings 9 cups to the party.

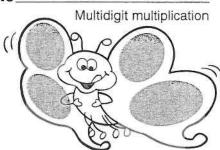
Jeff brings 4 times as many cups as Susan.

How many cups did Jeff bring to the party?

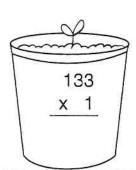
Kirr prings some goody bags to the party.
Clark brings 18 goody bags forthe party.
Now there are 32 goody bags.

Watch Them Grow!

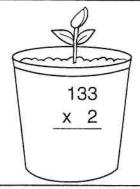




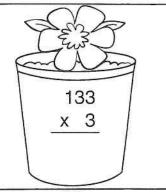
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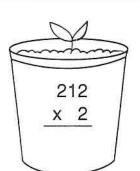
В.



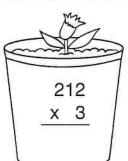
C.



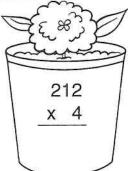
D.



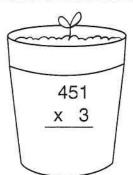
E.



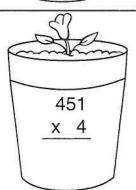
F.



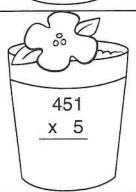
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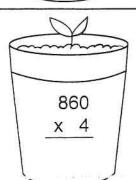
Η.



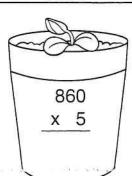
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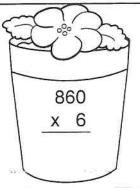
J.



K.



L





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Using Mental Math to Divide

Divide. Use strategies based on place value.

The fourth grade performed a play based on the story of Cinderella. There was one chair for each person present.

15. On Friday, 140 people came to the play. The chairs in the auditorium were arranged in 7 equal rows. How many chairs were in each row?

- 16. There were 8 equal rows set up for Saturday's performance. There were 240 people at the play on Saturday. How many chairs were in each row?
- 17. Which is the quotient of $5,600 \div 8$?

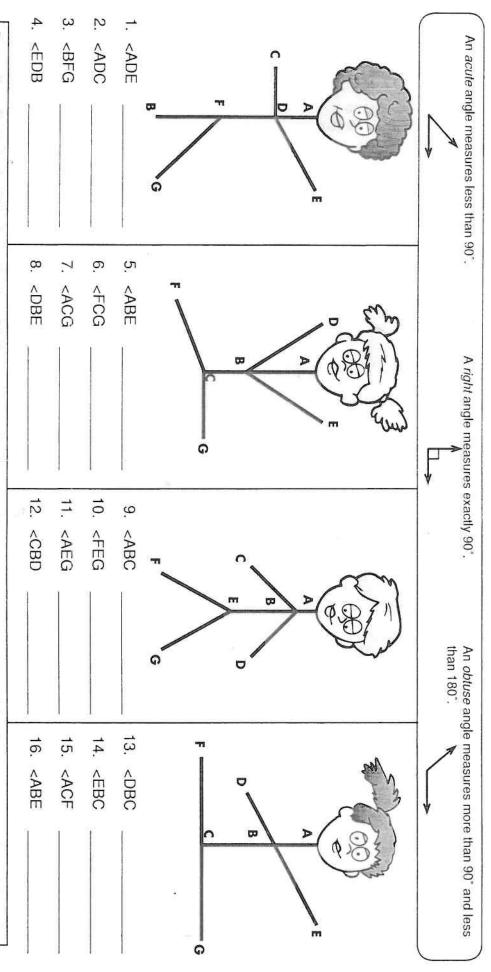
18. Writing to Explain Explain why the following answer is not correct: $1,000 \div 5 = 2,000$.

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- The second section of the second section secti
- The first angular field of a map map work fill gift of the fill and the fill of the fill o
- The first of the second second

Acrobatic Angles

gymnast. Study each angle indicated. Name the correct angle in the space provided. The Geo Gymnastic Competition is well under way! Gymnasts are judged on three body angles: acute, right, and obtuse. Look at each



and an obtuse angle. Bonus Box: On the back of this sheet, sketch a stick figure gymnast like the ones above so that his or her body position shows an acute angle, a right angle,

Line Relationships

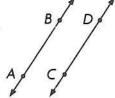
Vocabulary

Fill in the blanks.

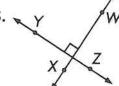
1. _____ lines are lines that cross each other.

2. _____ lines intersect to form four right angles.

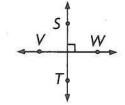
Name any line relationship you see in each figure. Write intersecting, parallel, or perpendicular.





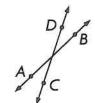


6.





8.



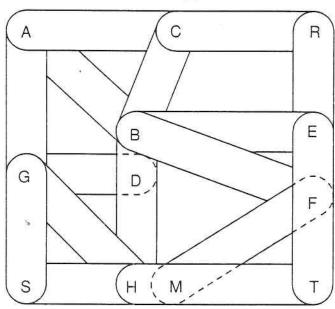
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A Tangle of Angles

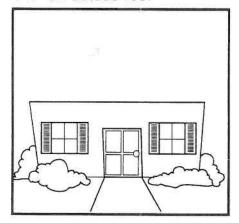
Write acute, obtuse, or right on the line to identify each angle.



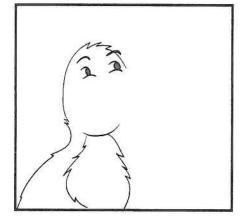
- 1. ∠ABC _____ 6. ∠BFM _____
- 2. ∠CBE _____ 7. ∠ABE _____
- 3. ∠CRE______ 8. ∠ABF_____
- 4. ∠AGD_____ 9. ∠GSH_____
- 5. ∠EBF ______10. ∠MFT _____

Complete each picture by drawing the requested angle.

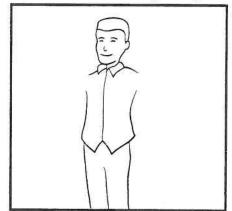
11. an obtuse roof



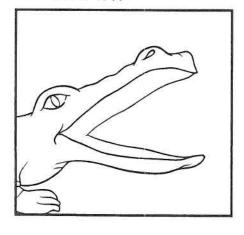
12. an acute beak



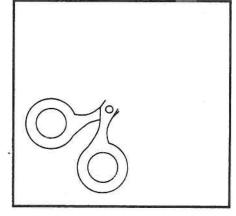
13. arms bent at right angles



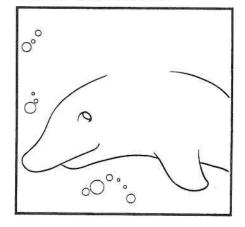
14. acute teeth



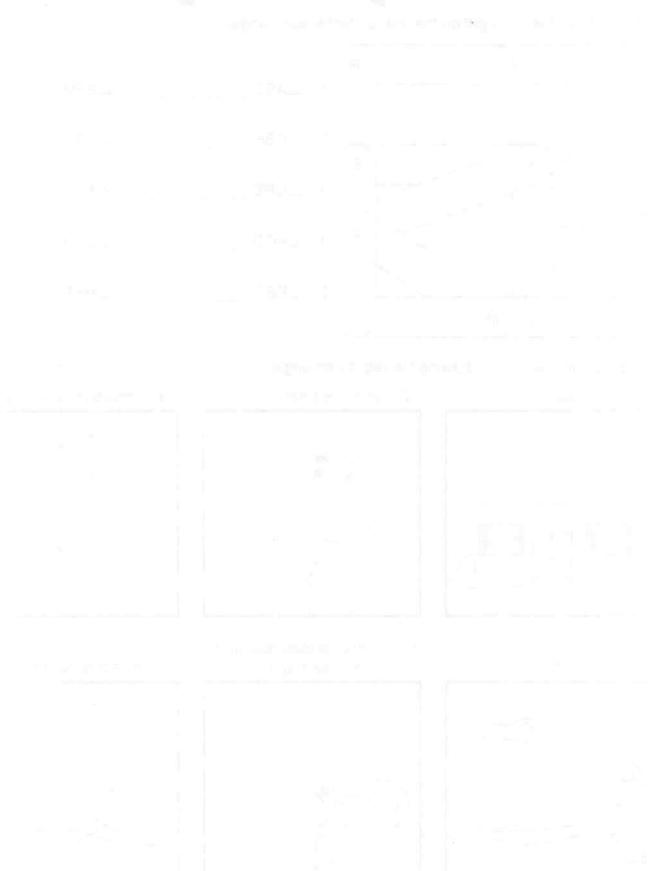
15. scissor blades opened to an obtuse angle



16. an acute back fin



A Tenogle of Angles



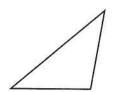
Identifying Triangles

Identify each triangle based on sides. (Equilateral, Isosceles or Scalene)

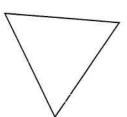
1)



2)

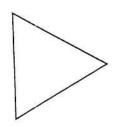


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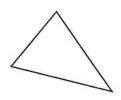


Scalene triangle

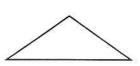
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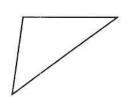
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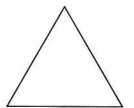
6)



7)



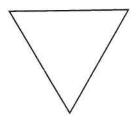
8)



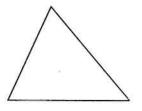
9)



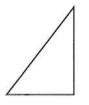
10)



11)



12)



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Measuhement Convensions

LARGE Small Multiply

small - LARGE Divide

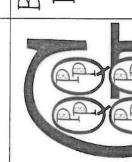
Metric

Basic Unit:

meter (m)

Customany

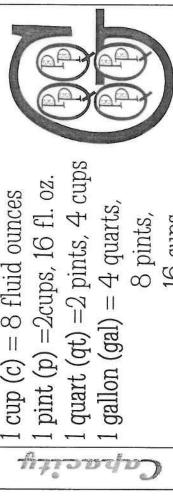
1 yard (yd) =3 feet, 36 inches 1 mile (mi) =1760 yards, 5280 feet



Basic Unit:

1 cup (c) = 8 fluid ounces

liter (L)



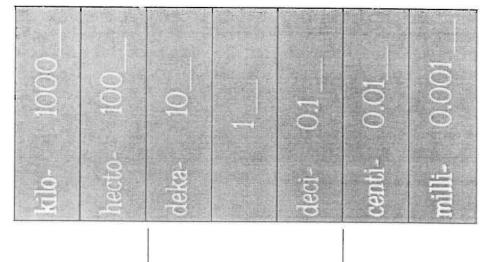
Basic Unit:

1 pound (lb) = 16 ounces(oz)

16 cups

1 ton (T) =2000 pounds

gram (g)



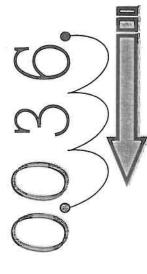
Milk	-IIIII	0.001_
Chocolate	-idane	0.01
Drinking	deci-	0.1_
By	BASE	
Died	deka-	10_
Henry	hector-	100_
King	-olivi	1000_

* Move your decimal the same number of spaces you "jump" on this line, in the same direction!

Example:

36 mm =

*Start at "milli-" (mm) & jump 3 spaces to the left to get to the base (m), now move the decimal in 36 3 spaces to the left. Fill in your spaces with zeroes!



So, 36 mm = 0.036 m



19 3

i

Unit Conversions

Directions: Use the work space to figure out the unit conversions.

1.	6 feet =yards	2.	5 quarts =	gallons
3.	1 quart = fluid ounces	4.	1 gallon =	pints
5.	4 yards =inches	6.	2 miles =	feet
		L		

and each question carefully. Use the work space to help you ligure it out.

an bought 36 yards of hibrato make costumes for the school play. What is that length to holies?

- serbni E
- redom to 1
- 2 Thurshes
- ...296 anches

types page has 64 bottles of water. If each bottle holds Linint of water, how many ellipos of water dires Mits Drivis have?

- A gallons
- anolisg a li
- amoring 8 1
- anothing Sa

Sum i. 53 unches tail. Sam's brother Luke is 4 inches taffer than she is.. What is linkes aright in feet and inches?

- author Freezing
 - 4 feet 9 Inches
- Titeet 7 Inches
- wheel 8 inches

Your name:	

Elapsed Time



Complete the table by filling in the elapsed times.

Start Time	End Time	Elapsed Time
5:00 A.M.		3 hours and 57 minutes
8:00 P.M.	10:44 P.M.	
11:55 P.M.		23 minutes
1:35 P.M.	c 1	5 hours and 40 minutes
	4:16 A.M.	1 hour and 31 minutes
3:18 P.M.	7:09 P.M.	а
	4:20 A.M.	2 hours
Noon	2:35 P.M.	
	8:10 P.M.	12 minutes



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provide househouse an early of a party party and

Equivalent Fractions

 $\frac{1}{16}$ 1 16 16

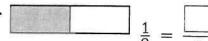
Fractions that name the same amount are called equivalent fractions. $\frac{1}{4}$, $\frac{2}{8}$, and $\frac{4}{16}$ are different names for the same number. So, $\frac{1}{4} = \frac{2}{8} = \frac{4}{16}$, which makes them equivalent fractions.

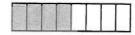
Find the equivalent fraction.

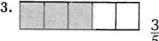
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2.

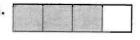
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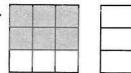


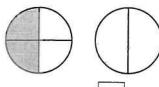


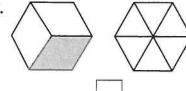
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INCOME:	21 626	F4 250	1000	1000	- 1
A	20	100	1		- 1
5	3100		1000	1000	- 1

Color the correct number of parts to show an equivalent fraction. Then write the equivalent fraction.

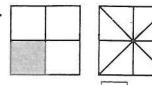
5.







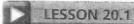
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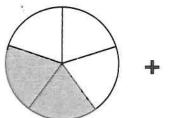


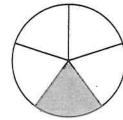


Add Like Fractions

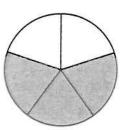
When you add like fractions, add only the numerators.

$$\frac{2}{5} + \frac{1}{5} =$$
_?









$$+ \frac{1 \text{ part shaded}}{5 \text{ parts}} = \frac{3 \text{ parts shaded}}{5 \text{ parts}}$$

$$\frac{2}{5} + \frac{1}{5} \xrightarrow{\text{Add the numerators.}} = \frac{3}{5}$$

Find the sum. Show how you added the numerators.

1.
$$\frac{2}{6} + \frac{3}{6} = \frac{2+3}{6} = \frac{5}{6}$$

$$2. \frac{3}{7} + \frac{3}{7} = \underline{}$$

3.
$$\frac{1}{8} + \frac{4}{8} =$$

$$4.\frac{2}{5} + \frac{2}{5} =$$

5.
$$\frac{2}{4} + \frac{1}{4} =$$

6.
$$\frac{1}{3} + \frac{1}{3} =$$

7.
$$\frac{4}{10} + \frac{5}{10} =$$

8.
$$\frac{4}{9} + \frac{1}{9} =$$

9.
$$\frac{4}{12} + \frac{6}{12} =$$

10.
$$\frac{2}{8} + \frac{1}{8} =$$

11.
$$\frac{3}{5} + \frac{2}{5} =$$

12.
$$\frac{5}{8} + \frac{6}{8} =$$

another Energions

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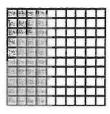
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Write a fraction and a decimal to describe each model.



0.4

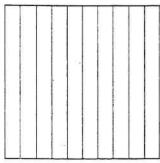


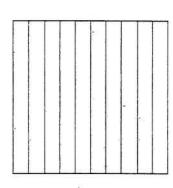
0.40



Shade the model to represent each fraction. Then write the fraction as a decimal.

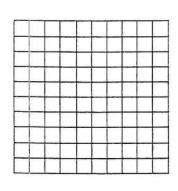
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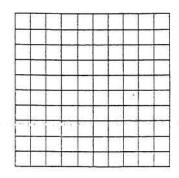


Decimal

100



Decimal



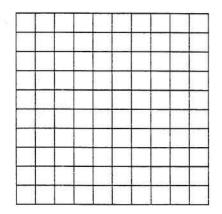
Decimal

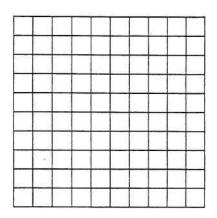
Shade the model to represent each decimal. Then write the decimal as a fraction. Fraction 2.06 Fraction 0.26 Fraction 2.60 Fraction 0.62

Compare two decimals using the symbols <, =, or >. Use the decimal squares to justify your answer.

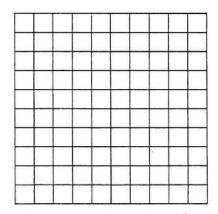


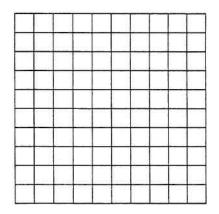
A. Which is more, 0.63 gallon or 0.8 gallon?



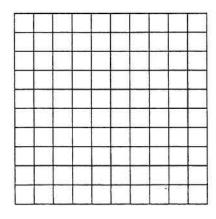


B. Which distance is shorter, 0.13 mile or 0.09 mile?





C. Which measure is greater, 0.89 kg or 0.9 kg?



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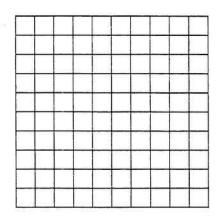
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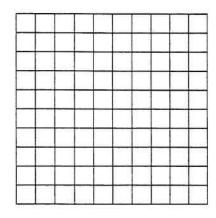


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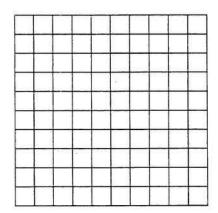


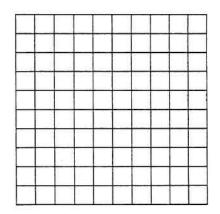
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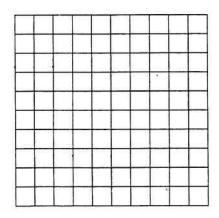


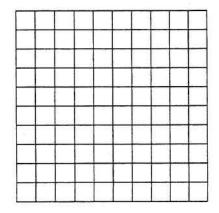
B. Which distance is shorter, 0.13 mile or 0.09 mile?





C. Which measure is greater, 0.89 kg or 0.9 kg?







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Represent decimals (to hundredths) on a number line.

1. Place the two numbers to the right on the number line below.

42.5

42.35



Compare the two numbers on the line below using the symbols <, >, or =.

Explain your thinking on the lines below.

2. Place two numbers on the number line that are greater than 42.0 and less than 43.0.



Compare the two numbers on the line below using the symbols <, >, or =.

Explain your thinking on the lines below.

3. Place the two numbers to the right on the number line below.

36.4

36.75



Compare the two numbers on the line below using the symbols <, >, or =.

Explain your thinking on the lines below.

4. Place two numbers on the number line that are greater than 58.0 and less than 59.0.



Compare the two numbers on the line below using the symbols <, >, or =.

Explain your thinking on the lines below.

Quick Stop: An Addition (or Multiplication) Card Game

Are you tired of worksheets and flashcards? This card game is a fun way to practice addition. Compete for the highest score as you flip over cards. Add up your cards until you reach 100 points. The first one there wins! Ready for a challenge? Check out the variations at the bottom of the page!

Skills:

- Addition
- Subtraction (see variations)

What You Need:

- Deck of cards
- Pencil and paper for every player (to add up scores)

What You Do:

- 1. Place a well shuffled deck of cards, face down, in the center of the playing area.
- Each player begins by drawing one card and placing it face up in front of themselves. Players write the value of this card down at the top of their papers. (Aces are worth 1, and face cards are all 10.)
- When all players are ready, everyone draws a second card. They add the value of these cards to their totals.
- Keep playing until one player reaches 100.

Variations:

- Play until the deck runs out. The player closest to 100, without going over, wins.
- Add jokers into the deck. If a player draws a joker, their score drops back to zero.
- Start with 100 points, and subtract your way to the finish.
- Need a challenge? Use multiplication to reach 1000. (This is a good adaptation for a fourth grader!)



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FACT POWER

Race to create an equation in the game will help your child and his opponents get creative with addition, subtraction, and multiplication. Math skills will be in full force while everyone tries to outsmart the competition!

What You Need:

- Deck of playing cards with face cards (jacks, queens, kings) removed
- · Pencils
- Scratch paper
- 2 or more players

What You Do:

- 1. Remove the face cards from the deck and set them aside.
- 2. Shuffle the deck of cards and deal out 4 cards to each player. Make sure the cards are face down, so nobody can see the hand they were dealt with. No Peeking!
- 3. Place the remaining deck face down in the center of the table.
- 4. Have one of the players flip over the top card and place it face up on the table. This is the target number.
- 5. Announce that Aces equal 1.
- 6. Count to three and have all players turn their cards over at the same time.
- 7. Encourage players to add, subtract, multiply, or divide the numbers in any combination to try to reach the target number. Make sure that players use ALL four of their cards. Have players use the scratch paper to verify their math.
- 8. Whoever can create an equation that hits the target number first gets one point.
- 9. The player to reach 3 points first wins!
- 10. When 4 cards become too easy, try playing with 5 cards instead.

Helpful Tip: Tell players to keep rearranging the layout of the cards to see new equation possibilities.



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The Game of Pig (Grades 3-8)

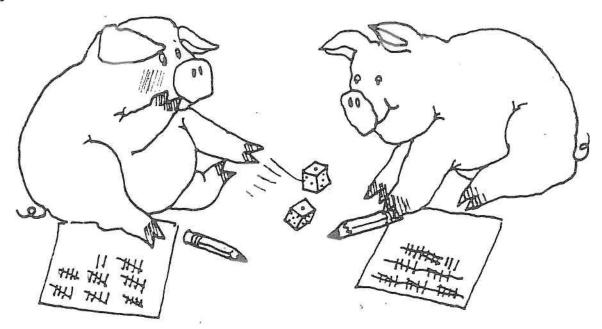
Math concepts: This game for two or more players gives students practice with mental addition and experience with thinking strategically.

The object: to be the first to score 100 points or more.

How to play: Players take turns rolling two dice and following these rules:

- 1. On a turn, a player may roll the dice as many times as he or she wants, mentally keeping a running total of the sums that come up. When the player stops rolling, he or she records the total and adds it to the scores from previous rounds.
- 2. But, if a 1 comes up on one of the dice before the player decides to stop rolling, the player scores 0 for that round and it's the next player's turn.
- 3. Even worse, if a 1 comes up on both dice, not only does the turn end, but the player's entire accumulated total returns to 0.

After students have had the chance to play the game for several days, have a class discussion about the strategies they used. You may want to list their ideas and have them test different strategies against each other to try and determine the best way to play.



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Tables of Measures

Metric System

Prefixes

= 1,000 kilo (k) 100 hecto (h) 10 deka (da) = 0.1deci (d) 0.01 centi (c)

milli (m)

Length

1 kilometer (km) = 1,000 meters (m)

100 meters 1 hectometer (hm) = 1 dekameter (dam) = 10 meters 1 decimeter (dm) = 0.1 meter 1 centimeter (cm) = 0.01 meter 0.001 meter 1 millimeter (mm) =

Capacity

1 kiloliter (kL) 1 hectoliter (hL) 1,000 liters (L) 100 liters = 10 liters 1 dekaliter (daL) 1 deciliter (dL) = 0.1 liter 1 centiliter (cL) = 0.01 liter 1 milliliter (mL) = 0.001 liter

Mass

1,000 grams (g) 1 kilogram (kg) 1 hectogram (hg) 100 grams 1 dekagram (dag) = 10 grams = 1 decigram (dg) 0.1 gram 1 centigram (cg) 0.01 gram 1 milligram (mg) 0.001 gram

Customary System

Length

= 12 inches (in.) 1 foot (ft) = 3 feet . 1 yard (yd) = 36 inches 1 yard = 5.280 feet 1 mile (mi)

Capacity

1 tablespoon (tbs) = 3 teaspoons (tsp) 1 fluid ounce (fl oz) = 2 tablespoons 1 cup (c) = 8 fluid ounces

1 pint (pt)

= 2 cups = 16 fluid ounces 1 pint

1 quart (qt) = 2 pints 1 gallon (gal) = 4 quarts

Weight

1 pound (lb) = 16 ounces (oz) = 2,000 pounds 1 ton (T)

Area

1 square foot (ft²) = 144 square inches (in.²) 1 square yard (yd²) = 9 square feet

1 acre (A) = 4,840 square yards

1 square mile (mi²) = 640 acres

Other Measures

1 century	=	100 years				
1 decade	=	10 years	* *			
1 leap year	=	366 days	2			
1 year	=	365 days	# [*]			
1 year	=	25 Meeks				
1 year (yr)	=	12 months				
(om) drnom f	~	d weeks			84	
J WEEK (WK)	=	7 days	J Gross	-	-6	
(b) yab f	=	24 hours	1 gross (gro)	. =	spaids 44f	
j hour (h)	400	sətunim 09	1 score	2	uəzop 71	35
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Glossary

A

acute angle An angle whose measure is less than 90°



acute triangle A triangle whose largest angle is an acute angle



addend A number to be added in an addition expression

adding 0 property Adding zero to any number does not change the number.

Examples: 7 + 0 = 7 and n + 0 = n

addition The arithmetic operation that combines two numbers

Example:

23 ← addend +13 ← addend

algebraic expression (see expression)

altitude (of a plane figure) A segment of a triangle or parallelogram that is perpendicular to the base. In a triangle one enapoint is the

angle A geometric figure formed by two rays with a common endpoint. The angle below can be named either ∠ABC or ∠B.

vertex opposite the base.



angle ABC or / ABC

area A measure of the number of square units in a region or a surface

associative property of addition (also called the grouping property of addition) Changing the grouping of the addends does not change the sum.

Example: (37 + 95) + 5 = 37 + (95 + 5) = 137

associative property of multiplication (also called the grouping property of multiplication). Changing the grouping of the factors does not change the product. Example: $(25 \times 5) \times 2 = 27 \times (5 \times 2) = 270$

average (or mean) A measure of central tendency. It is computed by adding all the items of data and dividing by the number of items.

axis (see x-axis, y-axis) A reference line on a graph

B

bar graph A pictorial representation of data that uses lengths of bars to show the information

base (of an exponent) The number that is used as a factor when evaluating powers Example: 3° = 3 × 3 × 3 × 3 The base is 3.

base (of a geometric figure)

A side or face in a plane or solid figure







billion The number 1,000 million or 1,000,000,000

C

capacity The maximum amount of liquid that a container can hold

Celsius temperature scale (°C) The temperature scale in the metric system in which the freezing temperature of water is 0°C and the boiling temperature of water is 100°C.

center (see circle)

centi- A prefix meaning one hundredth Example: A centimeter is 0.01 meter.

central angle An angle whose vertex is the center of a circle



certain event An event that will always occur, such as "The sun will rise tomorrow morning." The probability of a certain event is 1.

chord A segment joining any two points on a circle



of its points the same distance from a given point called the center

circle graph A pictorial representation of data that uses sections of a circle to show the information

cluster Several items of data grouped into a small interval

common denominator A denominator used when adding two or more fractions with unlike denominators. Any common multiple of the given denominators can be used to write equivalent fractions. Example: Some common denominators of $\frac{1}{2}$ and $\frac{1}{3}$ are 6, 12, 18, 24,...

common factor A number that is a factor of two or more whole numbers Example: 1, 2, 3, and 6 are common factors of 12 and 18.

common multiple A number that is a multiple of two or more whole numbers

Example: Common multiples of 3 and 4 are 12, 24, 36,...

commutative property of addition (also called the order property of addition) Changing the order of the addends does not change the sum.

Example: 3 + 4 = 4 + 3 = 7

commutative property of multiplication (also called the order property of multiplication) Changing the order of the factors does not change the product. Example: 3 × 5 = 5 × 3 = 15

compass A tool used to construct circles and other figures

compatible numbers Numbers used to make estimates. They are easy to work with mentally and are close to the given numbers.

composite number A number with three or more factors Example: 9 is composite, because its factors are 1, 3, and 9.

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cone A space figure with one flat, circular surface and one curved surface



congruent figures Figures that have exactly the same size and shape. In congruent polygons, corresponding angles are congruent and corresponding sides are congruent.





coordinate Each number of an ordered pair Example: (4, 6) has a first coordinate of 4 and a second coordinate of 6.

coordinate plane A grid with number lines used to locate points in a plane

counting number Any of the numbers 1, 2, 3, 4, and so on

cube A rectangular prism whose faces are all congruent squares



customary system of measurement The system of measurement currently used in the United States

cylinder A space figure with two congruent circular bases joined by a single curved surface



D

data Numerical information

deci- A prefix that means one tenth Example: A decimeter is 0.1 meter.

decimal A number that uses place value to indicate parts of a whole. The decimal point separates the whole number digits from the digits representing parts of a whole. Example: The decimal



represents the number three and 67 hundredths.

decimal point (see decimal)

degree A unit of measure of temperature or of an angle

denominator The numeral below the fraction bar in a fraction. It tells how many parts are in the whole.

diagonal A segment joining two vertices of a polygon that is not a side



diameter A chord of a circle that contains the center



difference The answer to a subtraction problem

digit Any of the symbols used to write numerals. In the base 10 system, they are 1, 2, 3, 4, 5, 6, 7, 8, 9, and 0.

distance The length of a path between two points

distributive property The same answer is obtained whether you add first and then multiply or multiply first and then add.

Example: 3 × (20 + 7) = 3 × 20 + 3 × 7 = 81

dividend The number that is divided divisible A number is divisible by another number if there is no

another number if there is no remainder when they are divided. Example: 4, 16, and 640 are all divisible by 4.

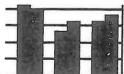
division An operation that divides a set into equal sets.

Example:

quotient \Rightarrow 10 R5 \Leftrightarrow remainder divisor \Rightarrow 6)65 \Leftrightarrow divident

divisor The number that is divided by

double-bar graph A bar graph that compares two sets of data by using two bars for each category



double-line graph A line graph that compares two sets of data by using one line for each set



T

edge A line segment that is the intersection of two faces of a space figure

elapsed time A measure of the time that passes between the beginning and end of an event Example: The elapsed time between 9:30 A.M. and 2:15 P.M. is 4 hours 45 minutes.

endpoint A point at the end of a line segment or ray

equally likely Outcomes of an experiment that have an equal chance of occurring Example: A spinner is divided into 6 congruent sections. Each section is an equally likely outcome of a spin.

equation A number sentence that says that two expressions have the same value. It may be true, false, or open.

Example: 3 + 7 = 10 is true;

Example: 3 + 7 = 10 is true; 3 + 7 = 7 is false, and 3 + n = 10 is open.

equilateral triangle A triangle with three congruent sides



equivalent fractions Two or more fractions that represent the same number.

Example: $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$

estimate To find a approximate solution mentally by using numbers that are close to the original numbers and easy to work with mentally Example: To estimate 47 + 32, add

the rounded numbers 50 + 30.
The estimated sum is about 80.

evaluate To find the value of an expression

even number A whole number that is divisible by 2

event Any outcome or set of outcomes of an experiment

expanded form A number written so that each digit is expressed as a power of 10 instead of by its position in the numeral Example:

Expanded forms for 316:

exponent A number that tells how many times a base is to be used as a factor.

Example: 3 represents the product (3 × 3 × 3 × 3)

4 factors

exponent form A number expressed as a power Example: Exponent forms of 64 are 24 and 82

expression A combination of numbers and symbols of operation (or grouping) that represents a mathematical quantity

Examples: $(7 \div 3) \div 5$ or $6 \times n$

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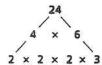
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factor A number to be multiplied in a multiplication expression

factor (of a number) A counting number that exactly divides another number Example: The numbers 1, 2, 3, 4, 6, and 12 are all factors of 12.

factor tree A diagram used to show the prime factors of a composite number



Fahrenheit temperature scale (°F)

The temperature scale in the cus-

The temperature scale in the customary system in which the freezing temperature of water is 32°F and the boiling temperature of water is 212°F.

formula An equation that expresses a mathematical relationship *Example*: A formula for area A of a rectangle with length I and width W is $A = I \times W$

fraction A number such as $\frac{1}{2}$ or $\frac{3}{4}$ that is used to express a part of a region or set

frequency The number of times an event occurs

function A set of ordered pairs

G

gap A characteristic of data. It is a significant interval that contains no data.

graph A pictorial representation of a data set or equation

greatest common factor (GCF)

The greatest number that is a factor of each of two or more numbers.

Example: The greatest common factor of 24 and 30 is 6.

grouping symbol Parentheses or other symbols that indicate the grouping of numbers or terms in an expression heptagon A polygon that has 7 sides



hexagon A polygon that has 6 sides



histogram A type of bar graph that shows frequencies over intervals

I

impossible event in probability, an event that cannot take place, such as "A prime number is also a composite number." The probability of an impossible event is 0.

inequality A number sentence that states that two numbers or expressions are greater than (>), less than (<), or not equal to (≠). Examples: 3 + 6 < 10 is read "Three plus six is less than 10." 5 + 7 ± 10 is read "Five plus seven is not equal to 10."

integer The set of numbers containing all the whole numbers and their opposites

intersecting lines Line that cross each other or that have points in common

interval One of the equal sized divisions on a histogram or other graph scale

inverse operations An operation that undoes the results of another operation. For example, addition and subtraction are inverse operations, as are multiplication and division.

isosceles triangle A triangle with at least two congruent sides



J-K-L

key (of a pictograph) An indication of what a single symbol on the graph represents

kilo- A prefix meaning 1000. Example: A kilogram is 1000 grams.

least common denominator (LCD)

The least number that is a common denominator of two or more fractions. It is the least common multiple of the denominators of each of the fractions.

Example: The least common denominator of $\frac{1}{2}$ and $\frac{2}{3}$ is 6.

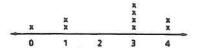
least common multiple (LCM) The least number that is a common multiple of two or more numbers Example: 12 is the least common multiple of 3 and 4.

line A set of points that extends endlessly in two opposite directions



line graph A pictorial representation of data that shows changes over time using line segments

line plot A pictorial representation of a small set of data along a number line. Each data item is represented with an "X" placed above a number on the line



line segment A part of a line that has two endpoints



M

mass The amount of matter in an object. Some units of mass are milligram, gram, and kilogram.

mean The average of a set of data.

It is found by adding each item of data and dividing by the number of items.

Example: 4 is the mean of 2, 4, 5, and 5.

median The middle point of the data when they are arranged from least to greatest. If there is an odd number of data items, it is the middle number. If there is an even number of data items, it is the mean of the two middle numbers.

Example: 4.5 is the median of 2, 4, 5, 5.

metric system of measurement
An international system of measurement that uses the meter,
liter, gram, and degrees Celsius as
the basic units of measure

milli- A prefix meaning one thousandth

Example: A milliliter is 0.001 liter

mixed decimal A decimal, such as $0.83\frac{1}{3}$, that ends with a fraction

4.5

7.1

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mixed number A number, such as 24 that is made up of a fraction less than one and a whole number

mode The number (or numbers) that occurs most often in a set of data. If every number occurs only once, the data has no mode. Example: 5 is the mode of 2, 4,

multiple of a number The product of the number and any whole number.

Example: The multiples of 4 are 0, 4, 8, 12, 16, . . .

multiplication An operation that expresses repeated addition of the same number

Example: 12 - factor

x 4 <= factor

48 - product

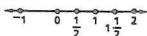
multiplying by 1 property Multiplying any number by 1 is equal to that number. Example: $0.3 \times 1 = 0.3$

multiplying by 0 property Multiplying any number by 0 is equal to 0.

Example: $\frac{1}{4} \times 0 = 0$

negative integer A number such as -1, -2, -3, and so on that is less than 0

number line A line that has its points labeled with numbers (called coordinates) such as whole numbers, integers, fractions, and



number pattern An ordered set of numbers that seems to have a rule or pattern for finding the next number

Example: 1, 4, 7, 10, . . . is a number pattern whose rule is "add 3" to find the next number

numeral A name or symbol for a number

numerator The number over the bar in a fraction. It tells how many parts of the whole are under discussion.

numerical expression An expression that contains only numbers, symbols of operation, and grouping symbols Example: $(7 + 4) \times 6$

obtuse angle An angle whose measure is greater than 90° and less than 180°



obtuse triangle A triangle whose largest angle is obtuse



ectagon A polygon that has 8 sides



odd number A whole number that is not divisible by 2

open equation An equation that contains a variable

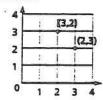
opposites Two numbers whose sum is 0. They are also called additive inverses.

Examples: 2 and -2 are opposites.

order of operations The rules that define the order in which the operations in an expression are to be evaluated. They are:

- 1 First work within parentheses
- 2 Next evaluate powers
- 3 Multiply and divide from left to riaht
- 4 Finally, add and subtract from left to right

ordered pair A pair of numbers used to locate a point in a coordinate plane. The first number is the horizontal distance from the origin; the second number is the vertical distance.



origin The point on a coordinate grid at which the two axes meet. its coordinates are (0, 0).

outcome A result in a probability experiment

outlier An item of data that is significantly greater or less than all the other items of data



parallel lines Two lines in the same plane that do not intersect

parallelogram A quadrilateral that has



its opposite sides parallel and congruent

pentagon A polycon with 5 sides



percent A ratio that compares a number to 100 Example: 39% is 39

percentage The result obtained by multiplying a quantity by a percent

perimeter The distance around a polygon. It is found by adding the lengths of all the sides.

period Each group of three digits seen in a number written in standard form Example: In the number 306,789. 245, the millions period is 306, the thousands period is 789, and 245 is the ones period.

perpendicular lines Two lines that intersect to form right angles



pictograph A pictorial representation of data that uses a single symbol or to represent multiples of a quantity

place-value system A system of numeration in which the value of a digit depends on its position in the numeral

plane A smooth flat surface that extends infinitely in all directions on the surface



plane figure A figure whose points are all in the same plane

point A location in space. It is represented by a dot.

point A

polygon A plane figure composed of line segments that meet only at their end-



points. The segments must form a closed figure.

positive integer A counting number such as 1, 2, 3, ... that is greater than 0

power A number that can be expressed using a single base and exponent.

Example: 32 is a power of 2; it is the fifth power of 2.

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prime factorization Expressing a number as a product of prime numbers Example: $36 = 2 \times 2 \times 3 \times 3$ or 2' x 3:

prime number A whole number greater than 1 that has exactly two factors, itself and 1 Example: $2 = 2 \times 1$

prism A space figure that has two congruent, parallel bases that are joined by parallelograms. A prism is named by the shape of its bases.





probability A number between 0 and 1 used to describe how likely an event is to happen; a measure of chance

product The answer to a multiplication problem

protractor A tool used to measure and draw angles

pyramid A space figure whose base is a polygon and whose other faces are triangles that share a common

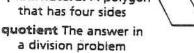


vertex. A pyramid is named by the shape of its base.

quadrant One of the four sections of a coordinate plane formed by the axes. They are numbered counterclockwise starting from the upper right quadrant.

Quadrant II	= $+$	Quadrant I
Quagrant III _		Quadrant IV

quadrilateral A polygon that has four sides





radius A segment from any point on a circle to its center; also the length of this segment



range The difference between the least and greatest numbers in a set of data

Example: The range of the data 2, 4, 5, 5 is 5 - 2 = 3.

rate A ratio in which unlike quantities are being compared, such as words per minute or feet per second

ratio A comparison of two quantities using division

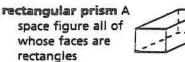
Example: 3 : 4, 3 to 4, or $\frac{3}{4}$

ray A part of a line that has one endpoint. When naming it, the endpoint is used first.

reciprocals Two numbers whose product is 1. They are also called multiplicative inverses.

Examples: 2 and $\frac{1}{2}$

rectangle A parallelogram that has four right angles

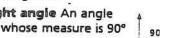


regular polygon A polygon that has all sides congruent and all angles congruent



remainder The number that is left over in a division problem

rhombus A parallelogram that has all of its sides congruent



right triangle A triangle whose largest angle is

a right angle

right angle An angle

rounding a number Replacing an exact number by another number that is easier to use or compute with

Examples: 12,501 rounded to the nearest hundred is 12,500. 4.386 rounded to the nearest hundredth is 4.39.

scale drawing A picture or diagram that is exactly the same shape as another but of a different size. Each distance in the drawing is in the same ratio as the corresponding distance in the original.

scale factor The ratio in a scale drawing or other similar figures that compares the scale drawing dimensions to the actual dimen-Sions

segment (see line segment)

scalene triangle A triangle that has no congruent sides



semicircle Half of a circle



sequence Numbers arranged according to some pattern or rule

side of an angle One of the rays that make up an angle



side of a polygon One of the line segments that make up a polygon

similar figures Two figures that have the same shape but not necessarily the same size. In similar polygons, corresponding angles are congruent and corresponding sides are proportional.



simplest form A fraction less than 1 in which the numerator and denominator have no common factors except 1, or a mixed number in which the fractional part is in simplest form

Examples: $\frac{5}{10} = \frac{1}{2}$

 $2\frac{6}{9} = 2\frac{2}{3}$

solve an equation To find the value of the variable (called the solution) that makes an open equation true

space The set of all points

space figure A figure that is not entirely in one plane

sphere A space figure that has (; all of its points (the same dis-



tance from a point, called the center.

square A rectangle that has all its sides congruent

standard form A number that is expressed as a base 10 numeral Example: 3,126 is the standard form of the number three thousand, one hundred twenty-six.

stem-and-leaf plot A way to arrange data by place value. The front digit or digits are called stems, the last digit or digits are called leaves.