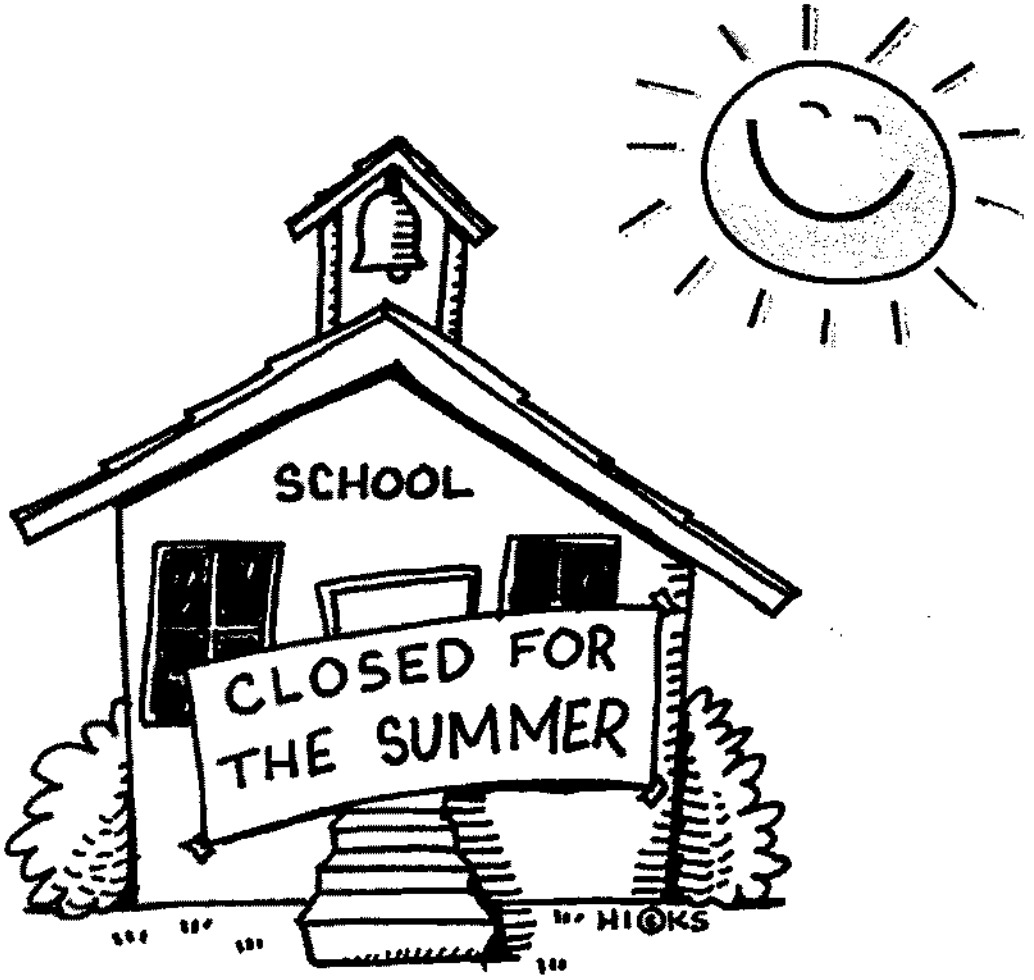
My Summer Math Packet



Grade 3

Name_____

Master multiplication through 10 x 10.

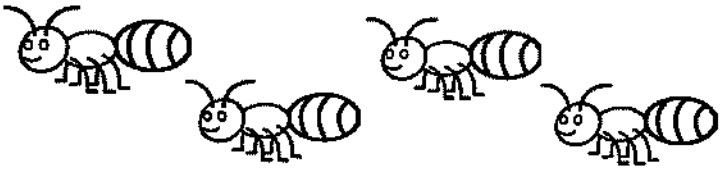
Goal: Solve <u>all</u> the problems correctly in under 2 minutes.

Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

9x9=____	8x8=____	7x1=____	6x1=____	9x4=____
4x4=____	9x8=____	8x7=____	9x3=____	7x2=____
6x2=____	7x3=____	9x7=____	8x6=____	5x5=____
7x4=____	9x2=____	6x3=____	9x6=____	8x5=____
9x1=____	5x4=____	6x4=____	7x5=____	9x5=____
8x4=____	4x3=____	7x6=____	6x5=____	5x3=____
4x2=____	8x3=____	5x2=____	4x1=____	6x6=____
7x7=____	5x1=____	8x2=____	3x3=____	8x1=____

How many problems did you solve correctly in 2 minutes? _____

*Counters for this activity can be pennies, macaroni, bingo chips, paper clips, etc.



Ant Antics

Use 24 counters to stand for ants. Form the ants into the patterns below. Draw a picture of each solution.

1. One solid rectangle, with three equal rows of ants

2. One solid rectangle, with four equal rows of ants

3. Two solid rectangles, each exactly the same size

4. Six small squares, with the same number of ants in each square

5. One hollow rectangle, with nine ants on each long side and five ants on each short side

6. One hollow triangle, with the same number of ants on each side

7. Four small triangles, with the same number of ants in each triangle

8. Three solid triangles—one with three ants, one with six ants and one with 15 ants

Make your own shape. Then describe your shape.

Fill in the blanks.

Multiplication With Factors From 6 to 9

Day at the Beach

_____,
(name of a boy or girl)

_____, and
(name of a boy or girl)

_____ went to
(name of a boy or girl)

_____ Beach. They brought _____
(noun) (number greater than 1)

umbrellas and _____ beach blankets. They also
(number greater than 1)

had _____ buckets to collect shells. They found shells
(number from 6 to 9)

shaped like _____ and shells that looked like
(plural noun)

_____. Altogether, they had _____ shells
(plural noun) (number from 6 to 9)

in each bucket. After collecting shells, it was time for a snack. Everyone

enjoyed _____and some ice-cold _____.
(type of food, plural) (type of liquid)

It was a very _____ day at the beach!
(adjective)

Questions:

How many umbrellas and beach blankets did they bring? _____

How many shells did they have in all? _____

Practice your addition facts.

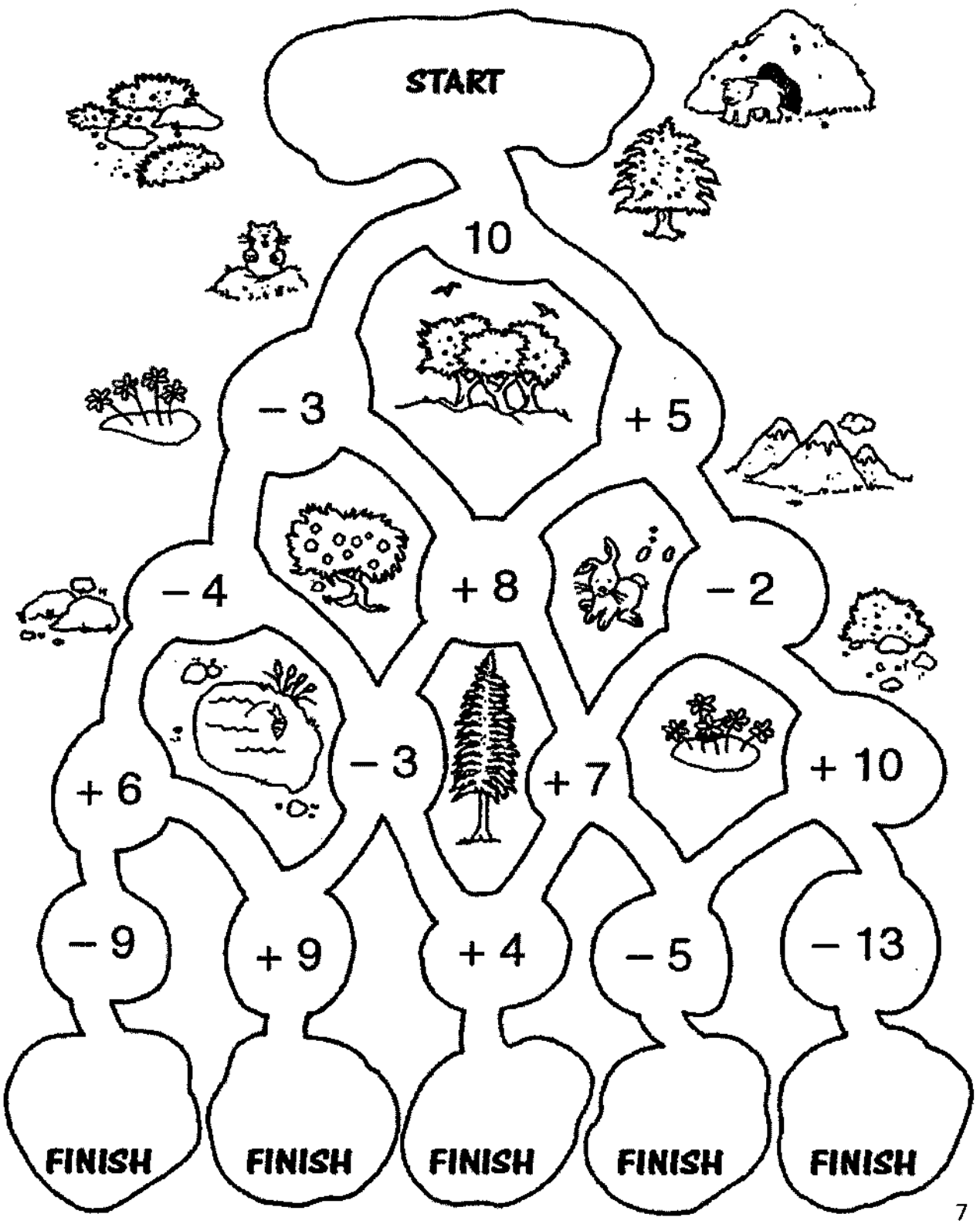
10 + 10	10 + 6	8 + 3	4 + 9	8 + 5	9 + 6
3 + 4	3 + 3	8 + 7	6 + 2	7 + 5	3 + 6
10 + 5	10 + 3	7 + 8	3 + 9	9 + 9	5 + 4
5 + 3	7 + 9	9 + 5	9 + 7	4 + 3	10 + 8
7 + 10	7 + 4	10 + 2	9 + 8	8 + 10	3 + 10
2 + 2	7 + 3	3 + 8	9 + 2	2 + 7	8 + 8
8 + 6	5 + 9	5 + 5	7 + 2	5 + 7	4 + 10

Practice your subtraction facts.

10 - 2	9 - 0	8 - 7	3 - 3	4 - 3	13 - 5
6 - 3	10 - 7	4 - 1	9 - 2	4 - 0	8 - 6
8 - 8	7 - 3	6 - 0	15 - 8	1 - 1	6 - 2
11 - 9	11 - 8	18 - 9	13 - 9	4 - 2	7 - 5
14 - 8	7 - 1	7 - 2	2 - 1	7 - 0	17 - 9
5 - 3	10 - 5	9 - 3	9 - 9	5 - 2	12 - 9
13 - 6	8 - 2	15 - 7	10 - 3	3 - 0	1 - 0

Add and subtract as you follow the paths. Put your final answers at each finish line.

Take a Hike!

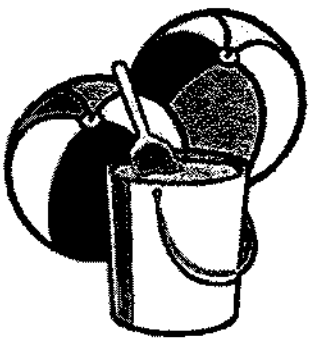


Round to the nearest ten above and below, and circle the rounded number that is closest to the given number.

1)	70	74	80	6)	540	548	550
2)	_____	41	_____	7)	_____	322	_____
3)	_____	62	_____	8)	_____	548	_____
4)	_____	47	_____	9)	_____	599	_____
5)	_____	97	_____	10)	_____	148	_____

Round to the nearest hundred above and below, and circle the rounded number that is closest to the given number.

1)	400	431	500	6)	_____	645	_____
2)	_____	811	_____	7)	_____	416	_____
3)	_____	656	_____	8)	_____	956	_____
4)	_____	735	_____	9)	_____	618	_____
5)	_____	812	_____	10)	_____	389	_____



Estimate the difference by rounding each number to the nearest ten.

1) 64 ⟶ ____
- 53 ⟶ - ____

2) 45 ⟶ ____
+ 44 ⟶ + ____

3) 92 ⟶ ____
+ 81 ⟶ + ____

4) 84 ⟶ ____
- 34 ⟶ - ____

5) 51 ⟶ ____
- 15 ⟶ - ____

6) 34 ⟶ ____
23 ⟶ + ____

Estimate the sum or difference by rounding each number to the nearest hundreds.

1) 546 ⟶ ____
+ 722 ⟶ + ____

2) 923 ⟶ ____
- 653 ⟶ - ____

3) 812 ⟶ ____
- 278 ⟶ - ____

3) 812 ⟶ ____
- 278 ⟶ - ____

4) 172 ⟶ ____
+ 281 ⟶ + ____

5) 667 ⟶ ____
+ 557 ⟶ + ____

Let's try multiplication again.

Goal: Solve <u>all</u> the problems correctly in under 2 minutes.

Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

9x9=____	8x8=____	7xl=____	6xl=____	9x4=____
4x4=____	9x8=____	8x7=____	9x3=____	7x2=____
6x2=____	7x3=____	9x7=____	8x6=____	5x5=____
7x4=____	9x2=____	6x3=____	9x6=____	8x5=____
9xl=____	5x4=____	6x4=____	7x5=____	9x5=____
8x4=____	4x3=____	7x6=____	6x5=____	5x3=____
4x2=____	8x3=____	5x2=____	4xl=____	6x6=____
7x7=____	5xl=____	8x2=____	3x3=____	8xl=____

How many problems did you solve correctly in 2 minutes? _____

Solve by decomposing numbers to make tens.
Fill in the boxes.

1. $34 \rightarrow 34 - 3 \rightarrow 31$
   $+17 \rightarrow 17 + 3 \rightarrow +20$
   $\square$

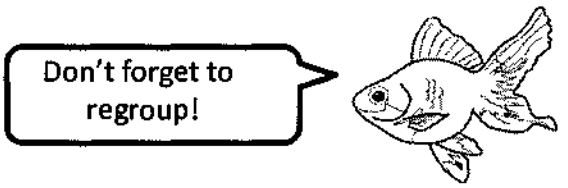
2. $67 \rightarrow 67 - 1 \rightarrow \square$
   $-29 \rightarrow 29 + 1 \rightarrow +\square$
   $\square$

3. $48 \rightarrow 48 + \square \rightarrow 50$
   $+23 \rightarrow 23 - \square \rightarrow +21$
   $\square$

4. $74 \rightarrow 74 - \square \rightarrow 70$
   $-36 \rightarrow 36 + \square \rightarrow +40$
   $\square$

5. $57 \rightarrow 57 + \square \rightarrow \square$
   $+35 \rightarrow 35 - \square \rightarrow +\square$
   $\square$

Find the sum.



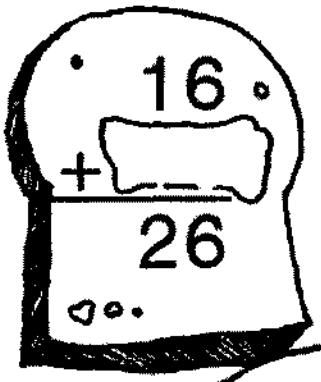
559 + 328	748 + 461	881 + 426	681 + 758	718 + 542
891 + 772	608 + 958	437 + 678	645 + 468	357 + 294

Find the difference.

552 - 146	488 - 117	370 - 140	675 - 354	622 - 453
490 - 454	984 - 456	587 - 107	847 - 464	906 - 210

Oops! A messy math student spilled jelly all over these math problems! Can you figure out which numbers are hidden?

A.



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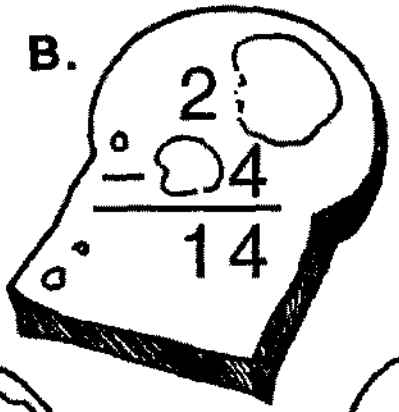

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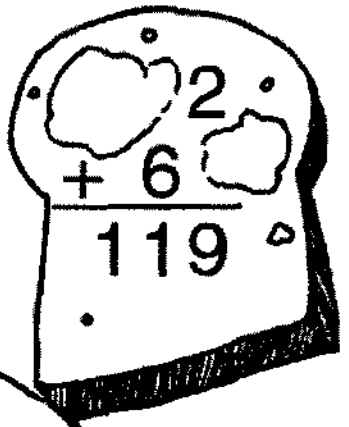
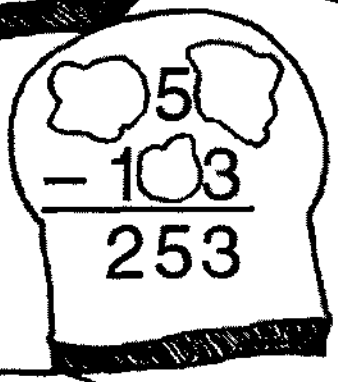


D.



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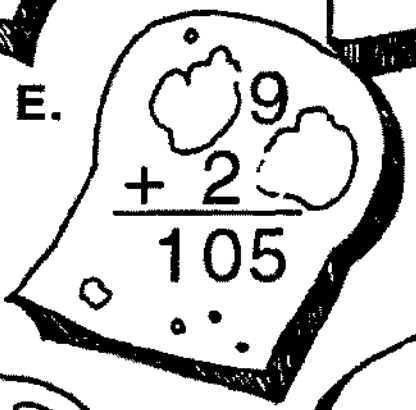

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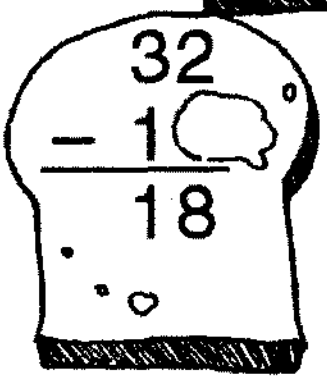
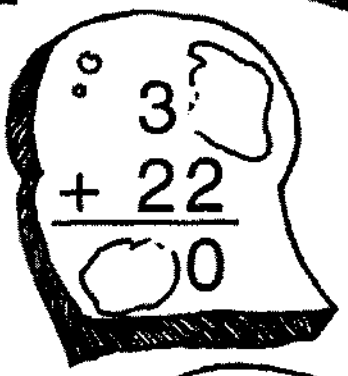
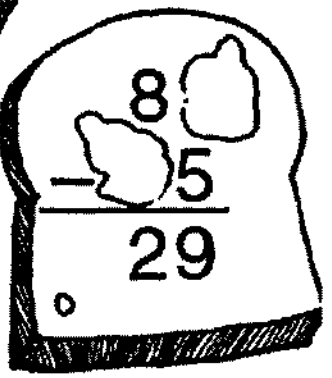


G.

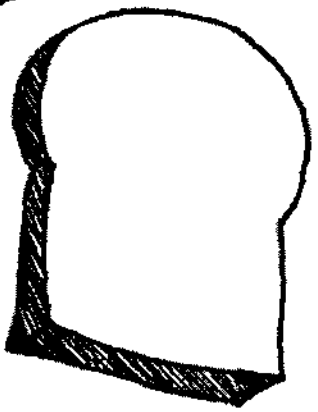


H.

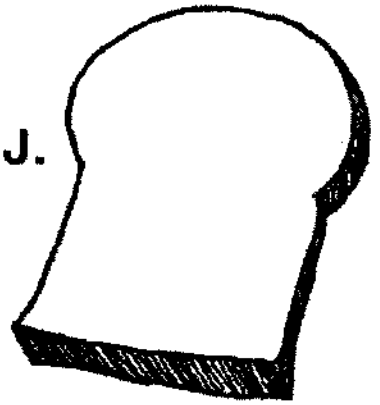


Make one messy addition and one messy subtraction of your own. Challenge a friend to solve them.

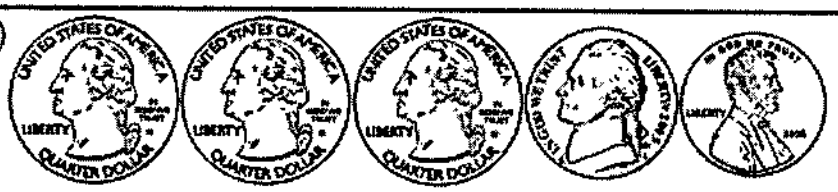
I.



J.



Count the change.

1) 

_____¢ _____¢ _____¢ _____¢ _____¢

Total _____

2) 

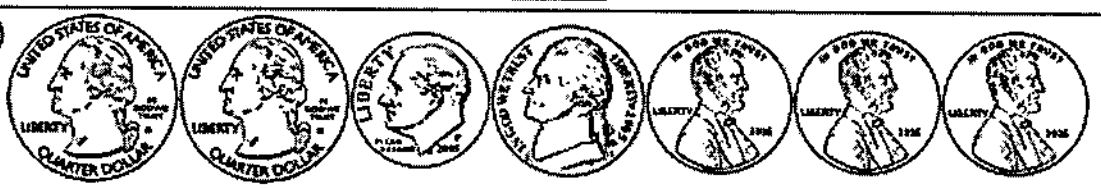
_____¢ _____¢ _____¢ _____¢ _____¢ _____¢ _____¢

Total _____

3) 

_____¢ _____¢ _____¢ _____¢

Total _____

4) 

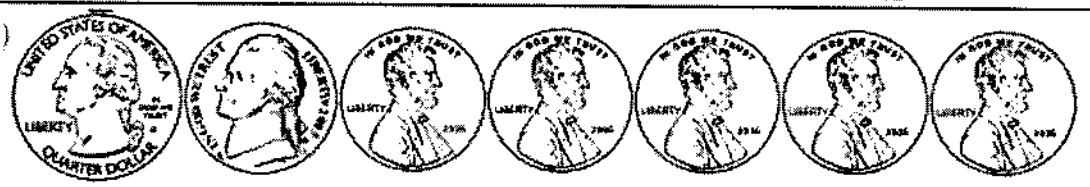
_____¢ _____¢ _____¢ _____¢ _____¢ _____¢ _____¢

Total _____

5) 

_____¢ _____¢ _____¢ _____¢ _____¢ _____¢

Total _____

6) 

_____¢ _____¢ _____¢ _____¢ _____¢ _____¢ _____¢

Total _____

7) 

_____¢ _____¢ _____¢ _____¢ _____¢

Total _____

Let's go out to lunch!

SANDWICHES AND MORE

Hamburger	$1.75
with cheese	$0.10 extra
Hot Dog	$1.25
Peanut Butter and Jelly	$1.05
Bean Burrito	$1.95
Turkey Burger	$1.55
Spaghetti and Meatballs	$2.15
Tuna	$1.45
Grilled Cheese	$1.65
Mini-Pizza	$2.10

SIDE ORDERS

French Fries	$0.75
Potato Chips	$0.45
Garden Salad	$1.10
Carrot Sticks	$0.65

DRINKS

Milk	$0.65
Soda	$0.65
Orange or Apple Juice	$0.70
Lemonade	$0.55

DESSERTS

Ice Cream Sundae	$2.25
Fruit Salad	$1.55
Brownie	$0.95
Chocolate Chip Cookies (2)	$0.85

1. How much is a hot dog and a milk? _____
2. How much is a grilled cheese, French fries, and a soda? _____
3. How much is a mini-pizza, brownie, and a lemonade?_____
4. If you paid for question 3 with a $5.00 bill how much change should you get back?_____

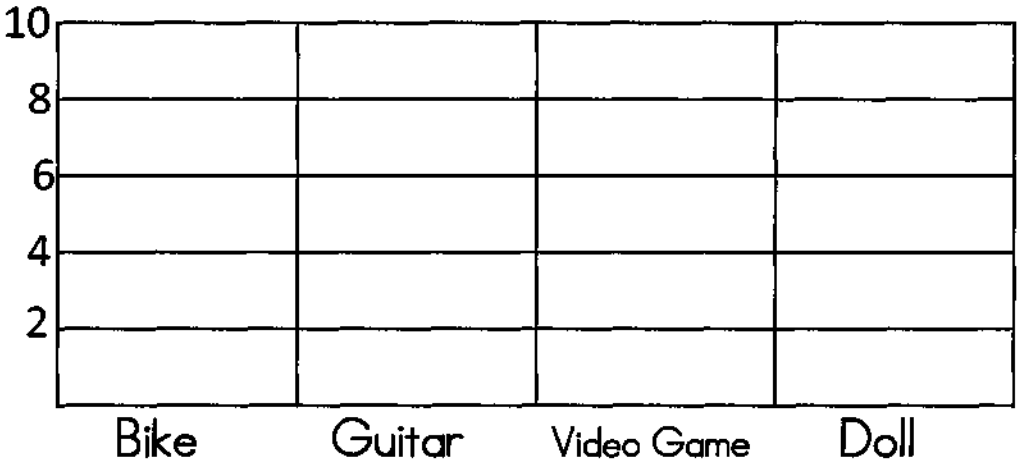
Draw the possible bills/coins you could receive as change.

Use the tally chart to answer the questions complete the bar graph below.

Jacob asked his friends what their favorite toy was. He made the tally chart below.

Favorite Toy	
Bike	𝍸
Guitar	𝍸
Video Game	𝍸 𝍸
Doll	𝍸

Shade in the bar graph using the tally chart data.



1. How many people chose bike as their favorite toy? _____
2. What toy got the most votes? _____
3. How many people chose doll and guitar? _____
4. How many more people chose video game than bike? _____
5. How many people in all answered the survey? _____

Let's try multiplication again.

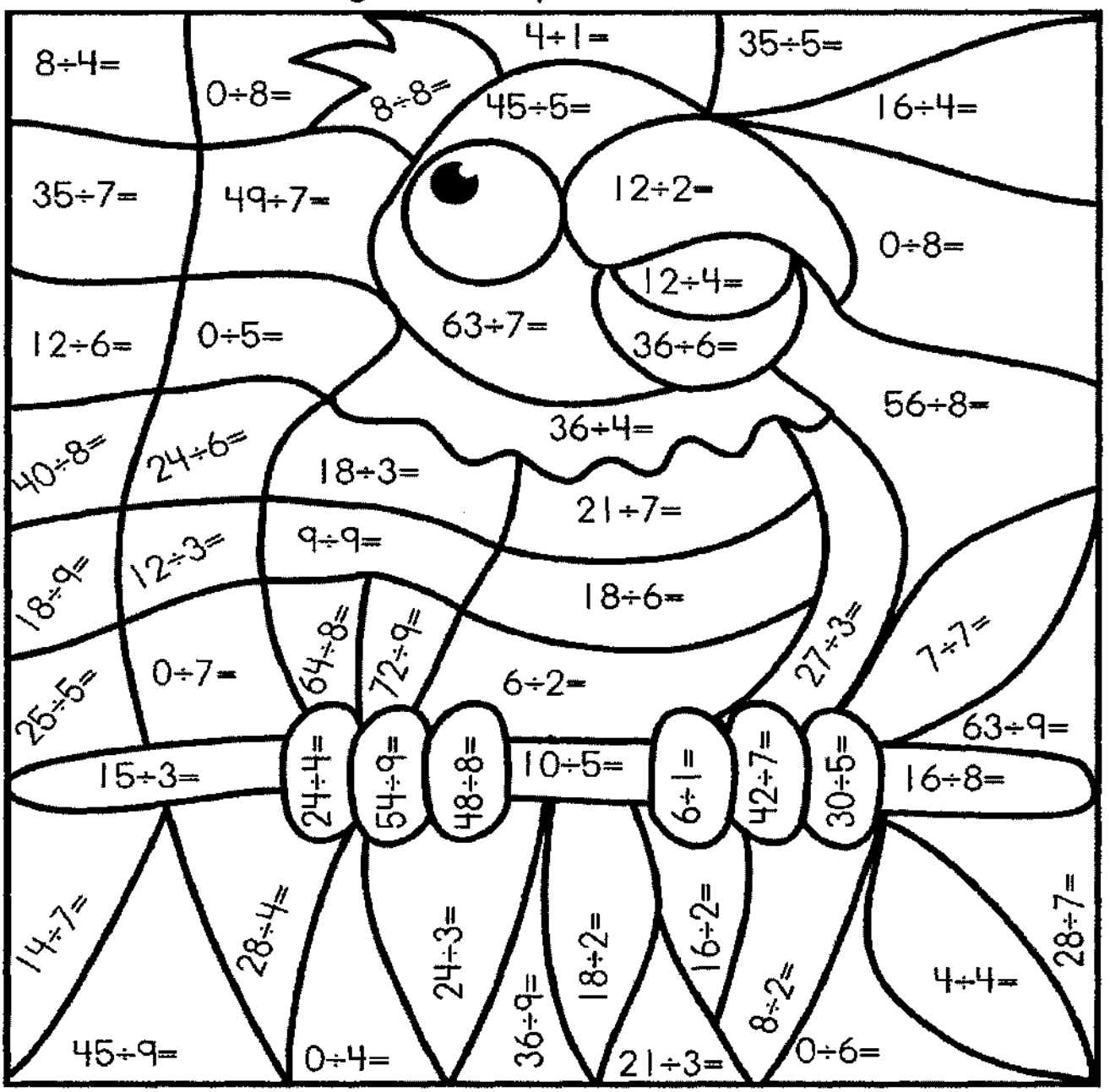
Goal: Solve <u>all</u> the problems correctly in under 2 minutes.

Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

9x9=____	8x8=____	7x1=____	6x1=____	9x4=____
4x4=____	9x8=____	8x7=____	9x3=____	7x2=____
6x2=____	7x3=____	9x7=____	8x6=____	5x5=____
7x4=____	9x2=____	6x3=____	9x6=____	8x5=____
9x1=____	5x4=____	6x4=____	7x5=____	9x5=____
8x4=____	4x3=____	7x6=____	6x5=____	5x3=____
4x2=____	8x3=____	5x2=____	4x1=____	6x6=____
7x7=____	5x1=____	8x2=____	3x3=____	8x1=____

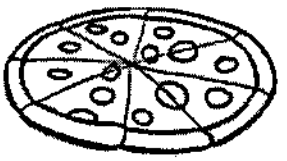
How many problems did you solve correctly in 2 minutes? ____

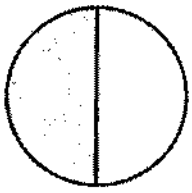
Write the quotient for each problem.
Then color according to the key at the bottom.

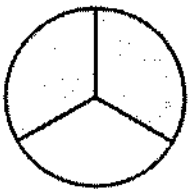


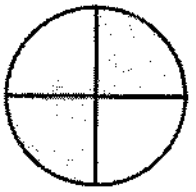
Blue	0, 4, 7	Green	1
Red	3	Brown	2, 5
Yellow	6	Pink	9
Violet	8		

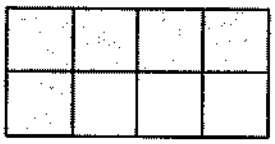
What fraction of the shape is shaded?

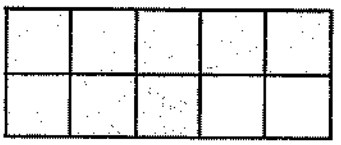


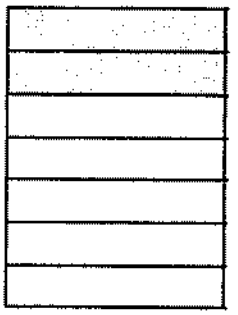
1. 

2. 

3. 

4. 

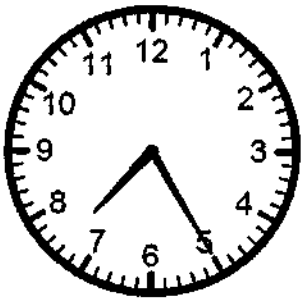
5. 

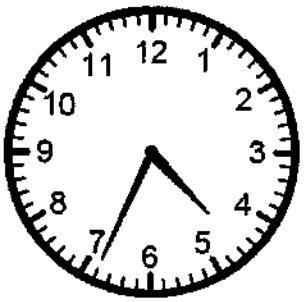
6. 

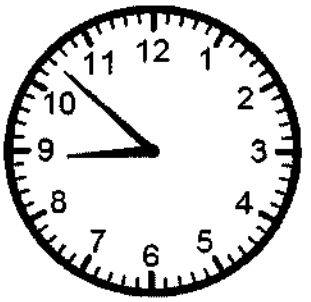
Compare the fractions. Use < or >.

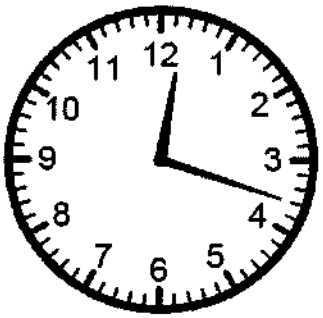
1. $\frac{1}{4} \square \frac{1}{5}$
2. $\frac{4}{6} \square \frac{3}{4}$
3. $\frac{1}{4} \square \frac{3}{8}$
4. $\frac{3}{6} \square \frac{1}{3}$
5. $\frac{2}{8} \square \frac{2}{4}$
6. $\frac{1}{2} \square \frac{1}{3}$
7. $\frac{2}{10} \square \frac{3}{5}$
8. $\frac{1}{4} \square \frac{5}{8}$
9. $\frac{1}{5} \square \frac{1}{3}$
10. $\frac{1}{6} \square \frac{2}{9}$

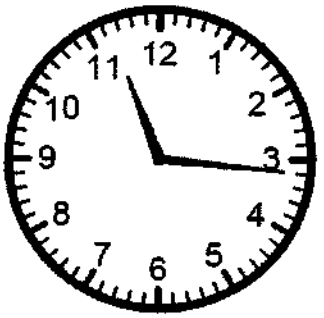
What time is it?

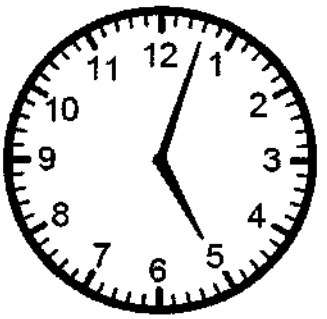


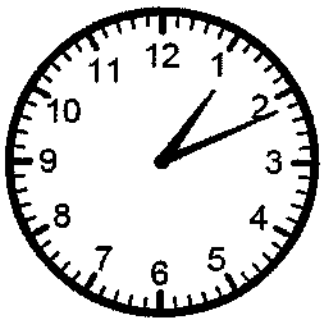


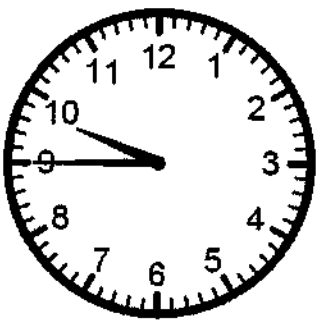












Time for a Riddle!

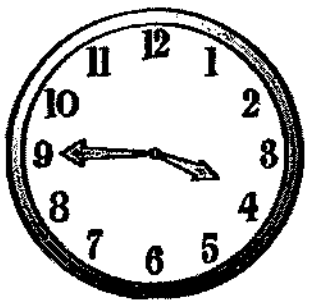
Read the riddle. To find the answer, find the clockface that matches the time written under each blank line. Then write the letter under that clockface on the blank line.

Riddle: What did the little hand on the clock say to the big hand?

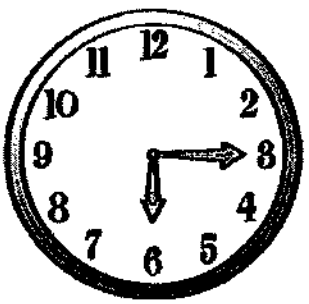
Answer: "

____	____	____	____	____	____	____
10:00	3:30	3:30	6:05	2:25	3:45	6:15

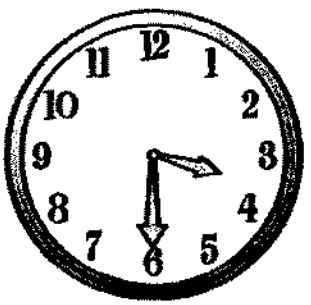
____	____	____	____	____	____	!"
4:45	6:05	2:55	3:45	3:45	2:55	



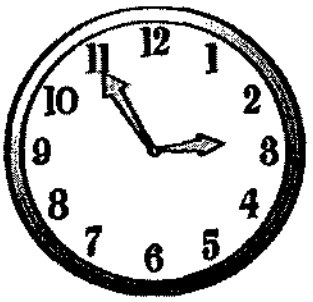
O



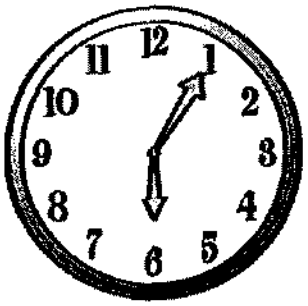
U



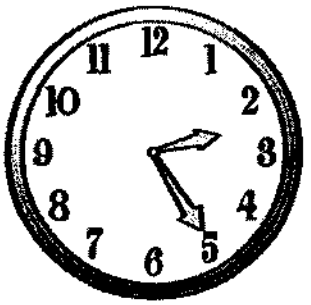
E



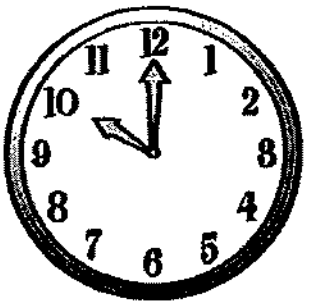
N



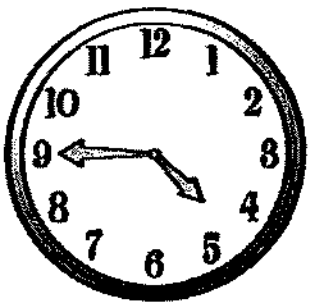
T



Y



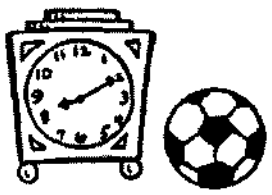
M



A

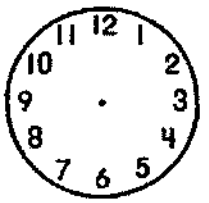
Look at the time on each clock. Then read and solve the problem. Write your answer on the lines. Then draw hands on the blank clock to show that time.

1

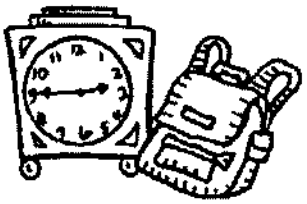


It takes Jennie 20 minutes to get to soccer practice.

What time will she get there? _____:_____

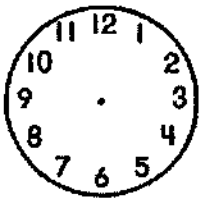


2

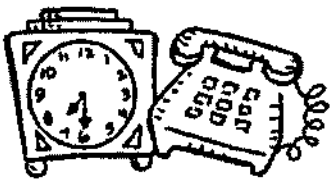


Parker's mom picks him up after school. School ends in 30 minutes.

What time will she pick him up? _____:_____

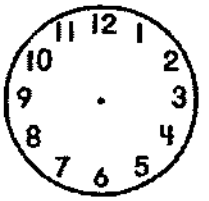


3

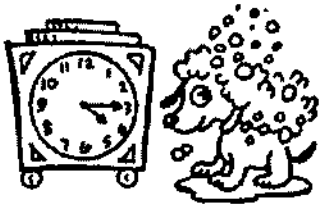


Kyra talks on the phone for 15 minutes each night.

What time will her phone call end? _____:_____

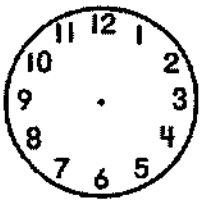


4

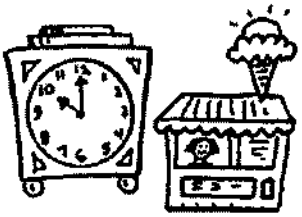


Milo gets washed every Tuesday for 45 minutes.

What time will his bath end? _____:_____

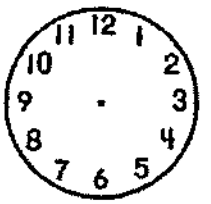


5

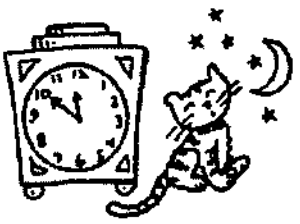


Terrance works $1\frac{1}{2}$ hours every Saturday.

What time will he go home? _____:_____

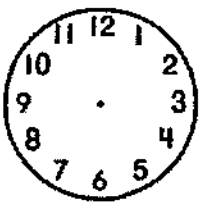


6



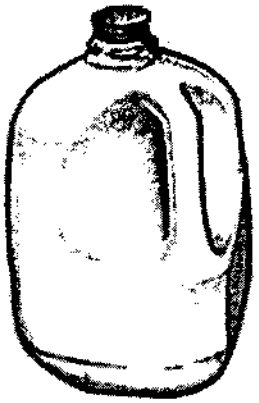
Every night, Sasha sings to the moon for 25 minutes.

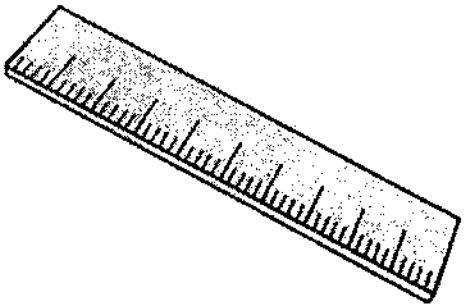
What time will she stop singing? _____:_____

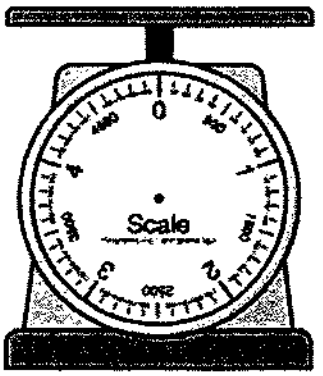


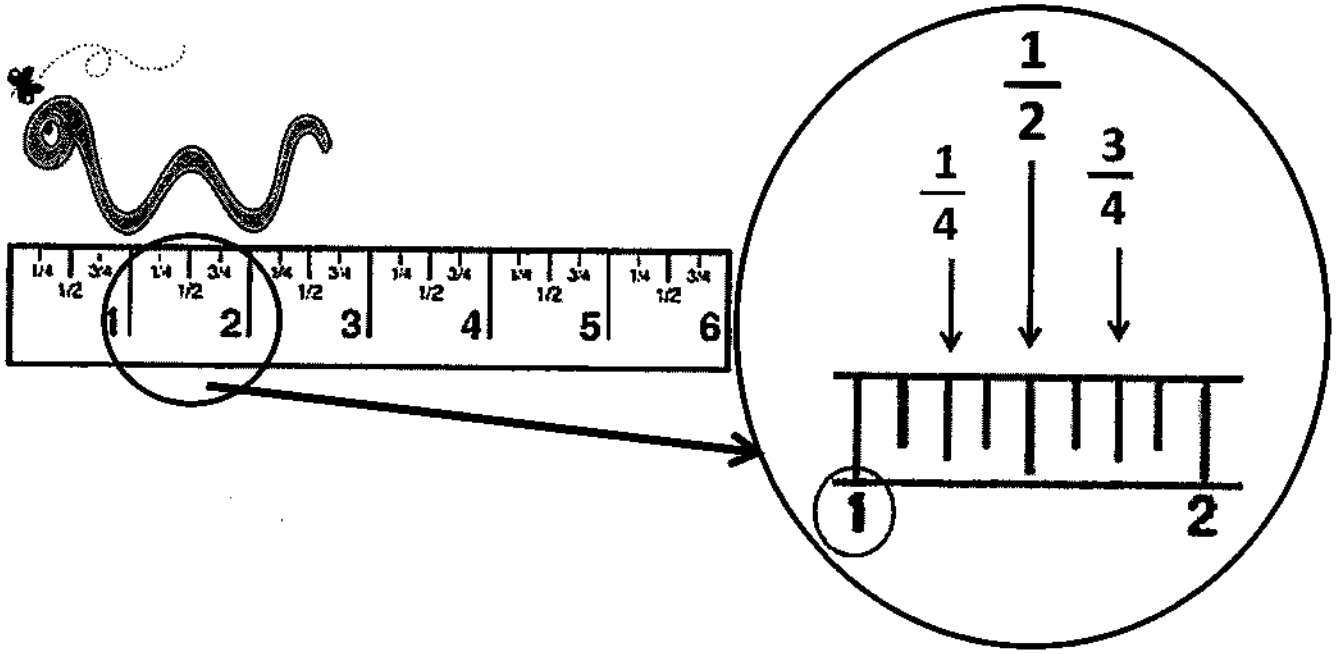
Measurement

U.S. Customary	Metric
Length inch (in.) 12 inches = 1 foot (ft.) 3 feet = 1 yard (yd.)	**Length** centimeter (cm) 100 centimeters = 1 meter (m)
Weight ounce (oz.) 16 ounces = 1 pound (lb.)	**Weight** gram (g) 1,000 grams = 1 kilogram (kg)
Liquid fluid ounce (fl. oz.) 8 fluid ounces = 1 cup (c.) 2 cups = 1 pint (pt.) 2 pints = 1 quart (qt.) 4 quarts = 1 gallon (gal.)	**Liquid** milliliter (ml) 1,000 milliliters = 1 liter (l)

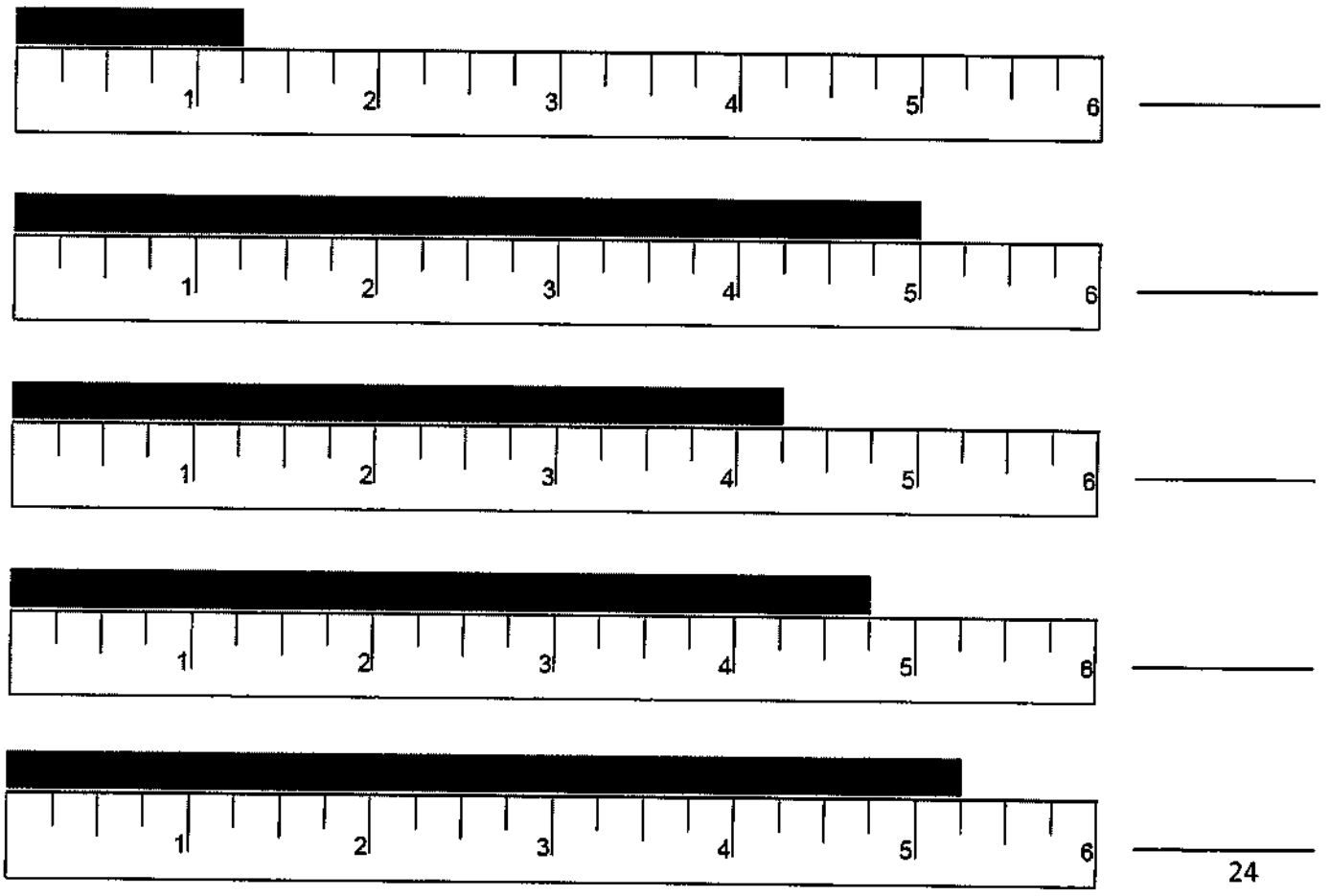








Use the ruler to measure to the nearest $\frac{1}{4}$ inch.



Select the appropriate unit of length.

1. Height of a two story home

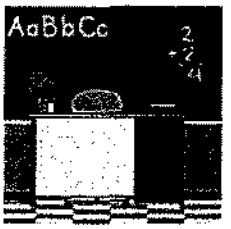
   A. 12 inches
   B. 12 feet
   C. 12 yards
   D. 12 miles

2. Height of a can of soda

   A . 4 inches
   B. 4 feet
   C. 4 yards
   D. 4 miles

3. Length of a classroom.

   A. 24 inches
   B. 24 feet
   C. 24 yards
   D. 24 miles



4. Distance from New York City to Los Angeles

   A. 2,448 inches
   B. 2,448 feet
   C. 2,448 yards
   D. 2,448 miles

Circle the appropriate unit of weight/mass.

1. A large television 

   pounds ounces

2. A desk stapler 

   pounds ounces

3. A bar of soap 

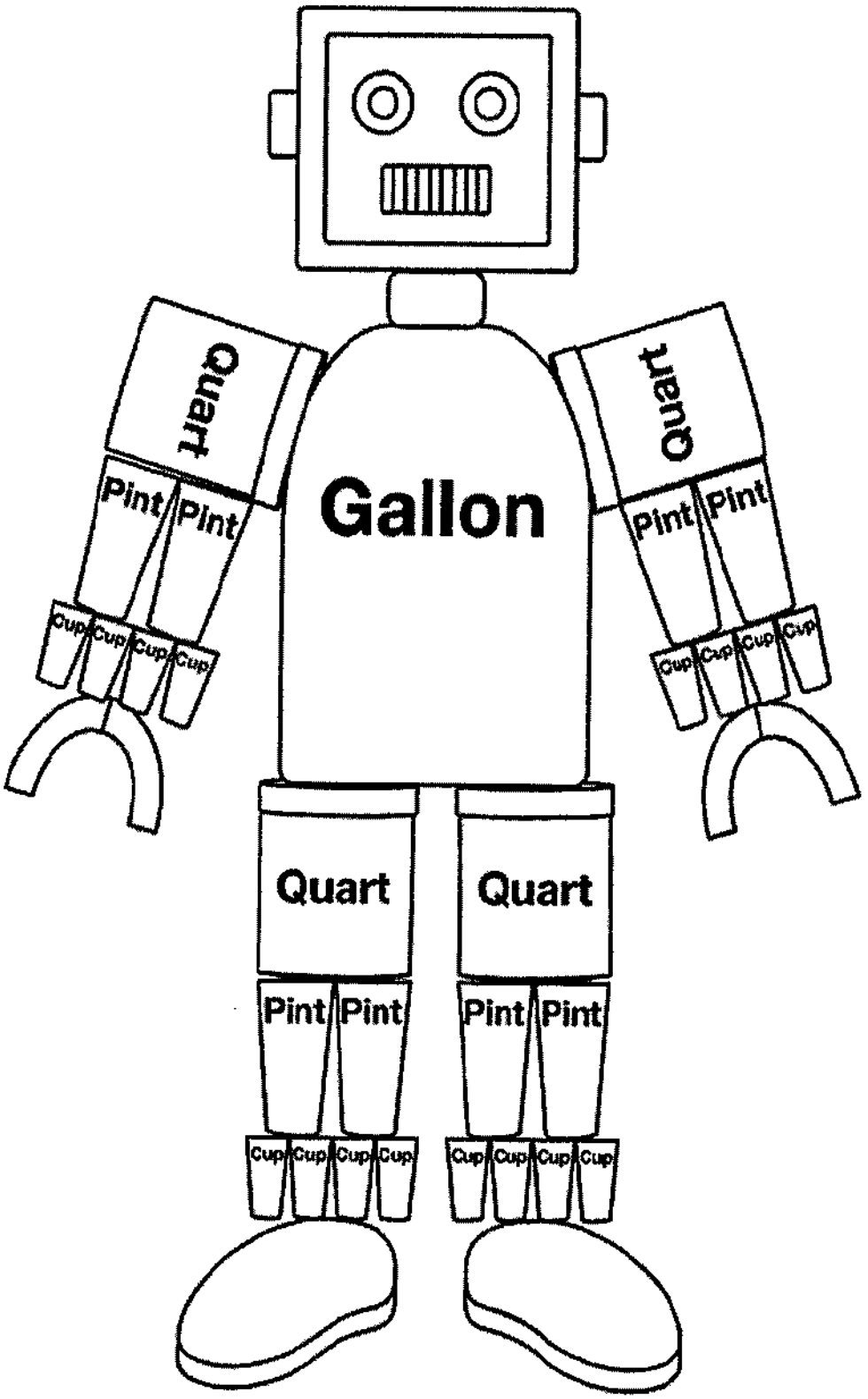
   pounds ounces

4. A set of encyclopedias 

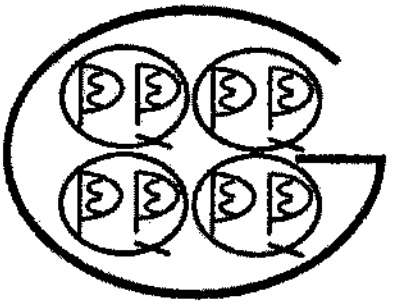
   pounds ounces

Color GallonBot as follows:

gallons - red quarts - green pints - blue cups - purple



Use the graphic below to answer the questions.



a. How many quarts are in a gallon? _____

b. How many pints are in a gallon? _____

c. How many cups are in a gallon? _____

d. Which is greater: a quart or a pint? _____

e. How many cups are in a pint? _____

f. Which is less: a cup or a pint? _____

g. How many cups are in a quart? _____

h. How many pints are in 2 quarts? _____

i. How many cups are in 3 pints? _____

j. Which is greater: 8 cups or 1 quart? _____

k. Which is less: 4 quarts or one gallon? _____

Circle the appropriate unit of metric weight/mass.

1. A teaspoon of sugar 

grams kilograms

2. A minivan 

grams kilograms

3. A pencil 

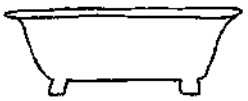
grams kilograms

4. A real horse 

grams kilograms

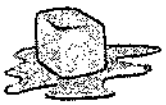
Circle the appropriate unit of metric liquid volume

1. The water used for a bath



liters milliliters

2. The water in an ice cube



liters milliliters

3. Mustard for a hot dog

liters millilters

4. The water in a pool

liters milliliters

Circle the appropriate unit of metric length.

1. The hands on a clock

centimeters meters

2. Trip on an airplane

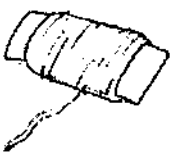
meters kilometers

4. How far you can throw a ball

millimeters meters

5. Width of a string

millimeters meters



Let's try multiplication again.

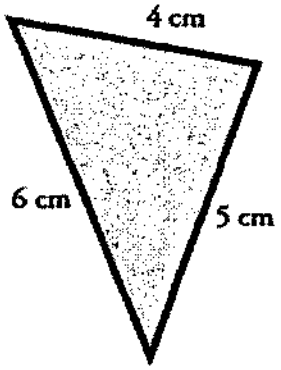
Goal: Solve all the problems correctly in under 2 minutes.

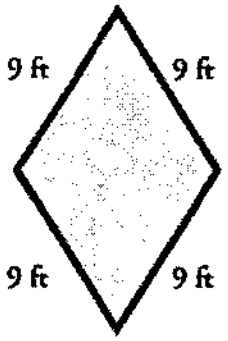
Directions: Have someone time you on the challenge below. Practice your multiplication flashcards and try the challenge again as you work through this packet.

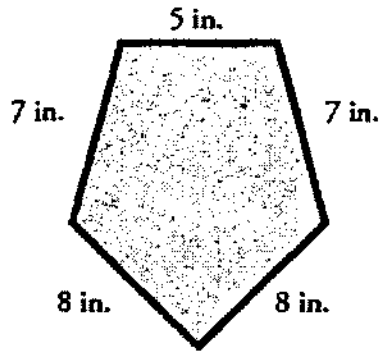
9x9=____	8x8=____	7x1=____	6x1=____	9x4=____
4x4=____	9x8=____	8x7=____	9x3=____	7x2=____
6x2=____	7x3=____	9x7=____	8x6=____	5x5=____
7x4=____	9x2=____	6x3=____	9x6=____	8x5=____
9x1=____	5x4=____	6x4=____	7x5=____	9x5=____
8x4=____	4x3=____	7x6=____	6x5=____	5x3=____
4x2=____	8x3=____	5x2=____	4x1=____	6x6=____
7x7=____	5x1=____	8x2=____	3x3=____	8x1=____

How many problems did you solve correctly in 2 minutes? _____

Find the perimeter (distance around) for each shape.

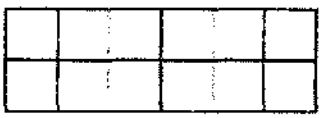




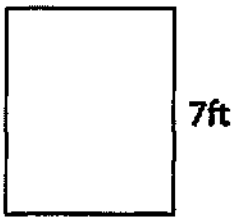


_____ _____ _____

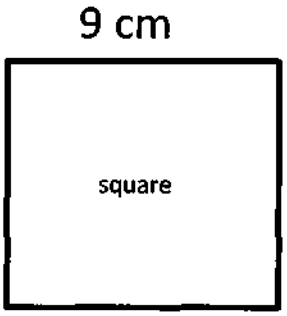
Find the area for each shape.

1. 

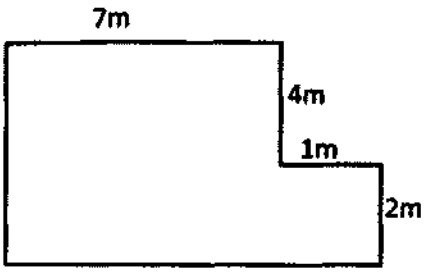
Area = _____square cm

2. 

Area = _____ square ft

3. 

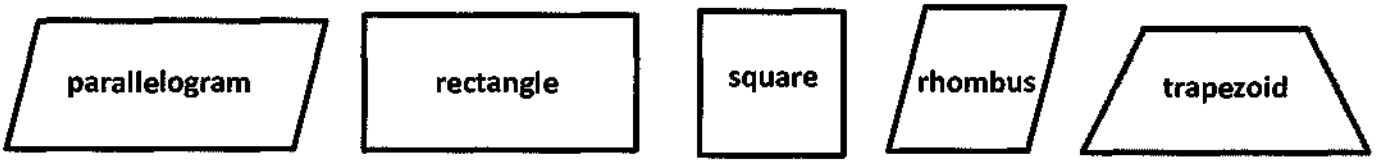
Area = _____square cm

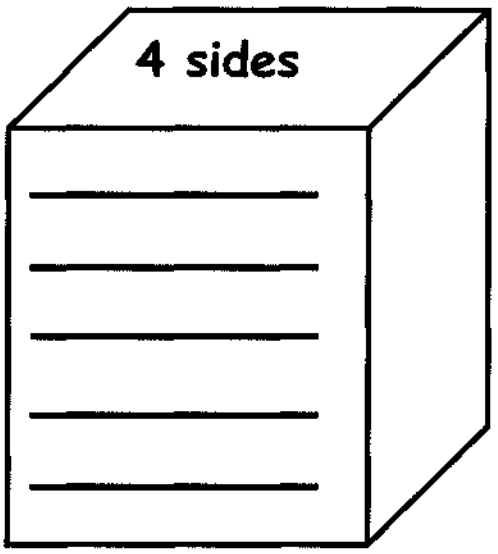
4. 

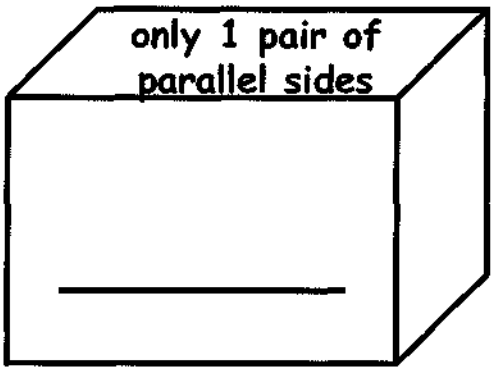
Area = _____ square m (m^2)

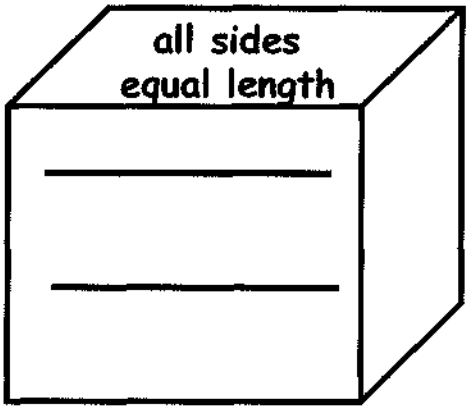
*Hint: Break the figure apart into 2 rectangles.

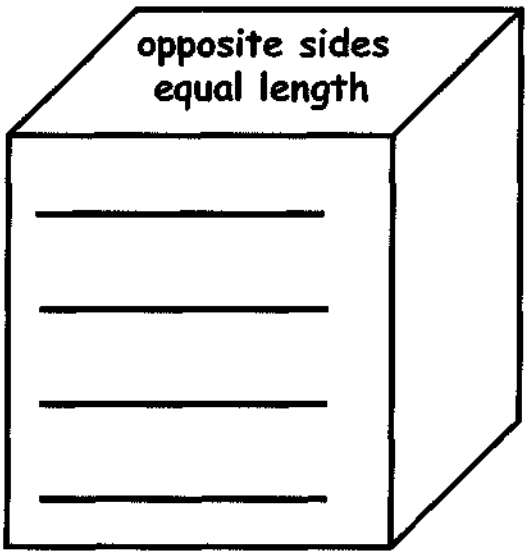
Write the names of the shapes in the boxes were they belong.

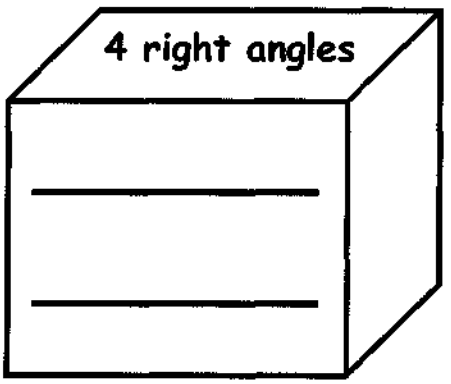




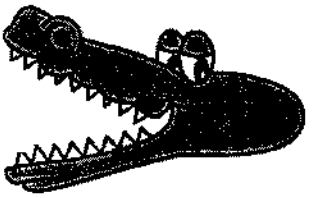








Compare the numbers. Use < or >.



3,852	☐	1,705	2,527	☐	1,595
9,801	☐	5,224	1,552	☐	1,196
7,396	☐	3,575	6,109	☐	5,710
4,921	☐	5,825	4,118	☐	6,121
8,244	☐	4,710	5,403	☐	3,091

Identify the rule and complete the pattern.

1. 7, 15, 23, _____, _____ Rule:_____
2. 48, 44, 40, _____, _____ Rule:_____
3. 7, 14, 21, _____, _____ Rule:_____
4. 2, 6, 18, 54 Rule:_____
5. 21, 18, 15, _____ Rule:_____

Really Silly Word Problems

1. There are strange insects on Planet Zoog. Strange, but fast! The Pizbot can fly 145 miles an hour. The Waztail fly can fly 258 miles an hour. About how far can both insects travel in one hour?

ANSWER:

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2. Chef Crayzee was making his infamous pie á la bug. His special recipe called for 41 black ants, 52 beetles, 27 red ants and 16 flies to make one batch. How many bugs does he need in all?

ANSWER:

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3. The Martian exploratory force has 65 crew members. On the way to Earth they took a rest stop on the moon. 17 Martians stayed too long in the restroom and missed the rocket to Earth. How many Martians are on the rocket?

ANSWER:

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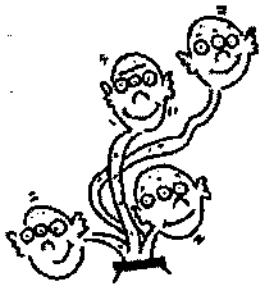
4. Doodlewazzers have 3 eyes on each of their 4 heads. How many eyes does a Doodlewazzer have?

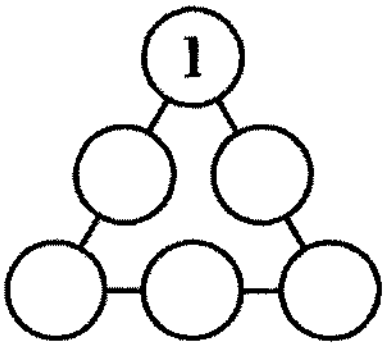


ANSWER:

Math Brain Teasers

GOING IN CIRCLES?

Fill in the circles with the numbers from 2 to 6 so that each side of the triangle adds up to 10.



WHAT'S YOUR SIGN?

Fill in the missing + and – signs to make this equation true:

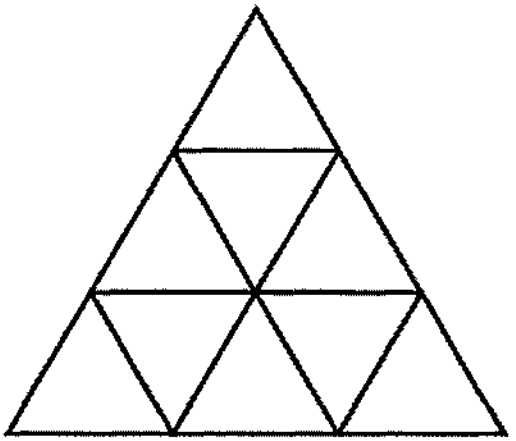
5 ◯ 4 ◯ 9 ◯ 3 ◯ 2 ◯ 1 = 4

GIVE ME HALF

What is $\frac{1}{2}$ of $\frac{1}{2}$?
(Hint: Draw a picture!)

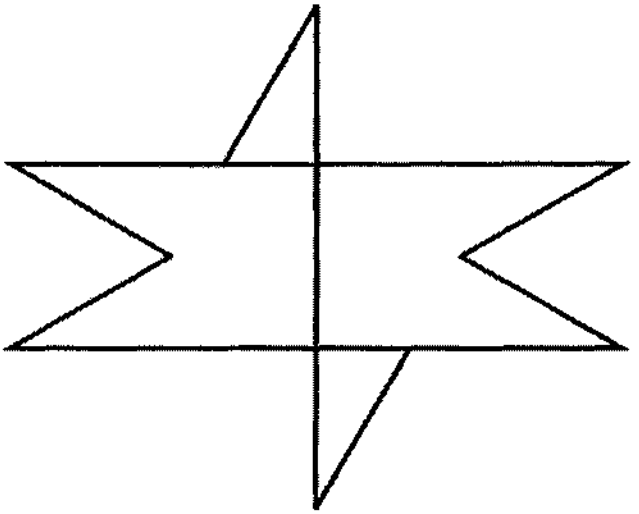
"TRI" THIS

How many triangles are in this figure?



SHAPE TRACE

Can you trace this figure without going over any lines?



* Answers are on the last page.

More Math Brain Teasers

UPSIDE DOWN

What two-digit number reads the same upside down as it does right side up?

_____

CATS IN LINE

One cat walked in front of two cats. One cat walked behind two cats. One cat walked between two cats. How many cats were there? (Hint: Draw a picture!)

_____

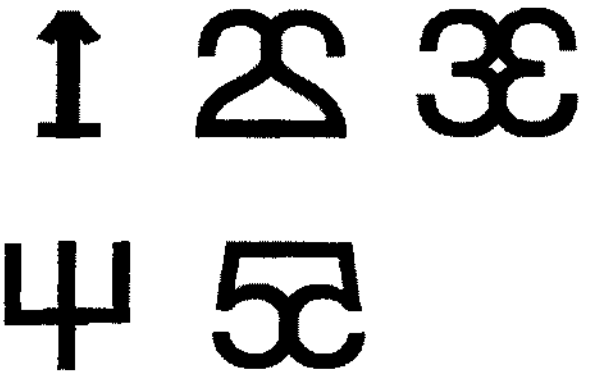
CUTTING THE CAKE!

What is the fewest number of cuts you could make in order to cut a cake into six slices? (Hint: Draw a picture!)

_____

NUMBER PATTERN

Here are the first five figures in a pattern. Draw the next figure.



HOW MANY NUMBERS

Use the digits 5, 7, and 3. Write all the three-digit numbers you can make.

_____

_____

_____

_____

_____

_____

* Answers are on the last page.

Last Time: Did you master multiplication through 10 x 10?

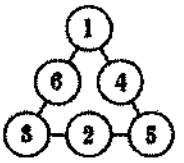
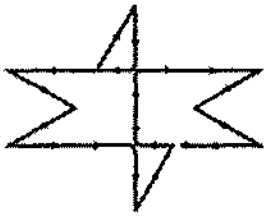
Goal: Solve <u>all</u> the problems in under 2 minutes.

Directions: Have someone time you on the challenge below.

9x9=____	8x8=____	7xl=____	6xl=____	9x4=____
4x4=____	9x8=____	8x7=____	9x3=____	7x2=____
6x2=____	7x3=____	9x7=____	8x6=____	5x5=____
7x4=____	9x2=____	6x3=____	9x6=____	8x5=____
9xl=____	5x4=____	6x4=____	7x5=____	9x5=____
8x4=____	4x3=____	7x6=____	6x5=____	5x3=____
4x2=____	8x3=____	5x2=____	4xl=____	6x6=____
7x7=____	5xl=____	8x2=____	3x3=____	8xl=____

How many problems did you solve correctly in 2 minutes? ____

Answers to Brain Teasers

Going in Circles	
What's your sign?	$5 + 4 - 9 + 3 + 2 - 1 = 4$
Give Me Half	$\frac{1}{2}$ of $\frac{1}{2}$ is $\frac{1}{4}$.
Tri Time	13 triangles: 9 small (interior) 3 medium (interior) 1 large (the entire triangle)
Shape Trace	
Upside Down	Answers include 11, 88, 69, and 96.
Cats in a Line	3 cats
Cutting the Cake	three cuts
Number Pattern	
How many numbers	573; 735; 357; 375; 753; 537

Congratulations!!

You have <u>completed</u> your summer packet and are better prepared for 4th grade math!