













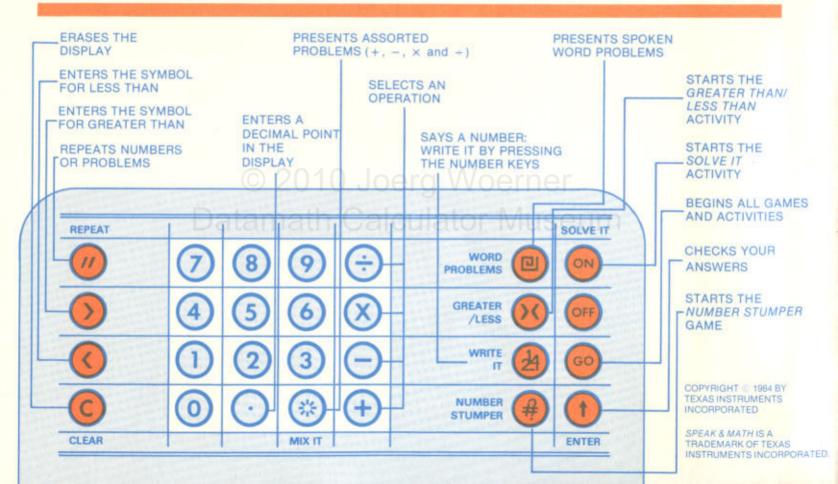


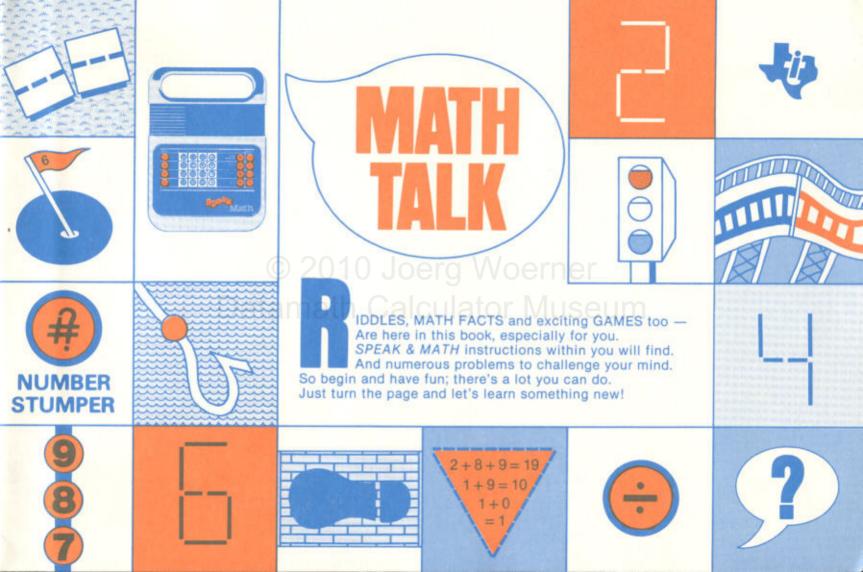
A 21-page fun-filled activity book for





THE KEYS TO SPEAK & MATH FUN







an you "place" five markers on your abacus? To play you will need:

· two players

· five markers for each player Decide who goes first and which abacus each player will use.

For each player's turn:

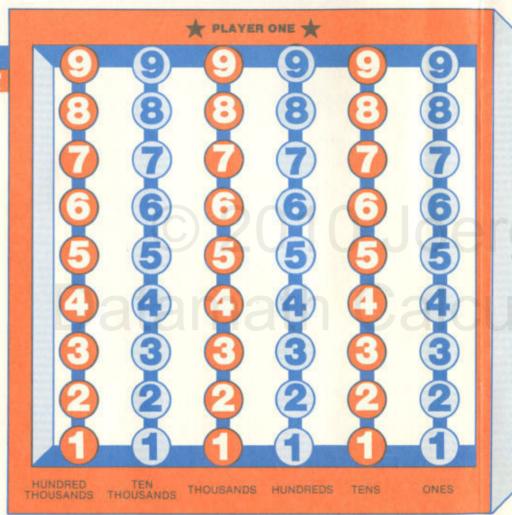
1. Select the "place" you will use (ones, tens, hundreds for Level 1; ones, tens, hundreds, thousands, ten thousands, hundred thousands for Level 2).

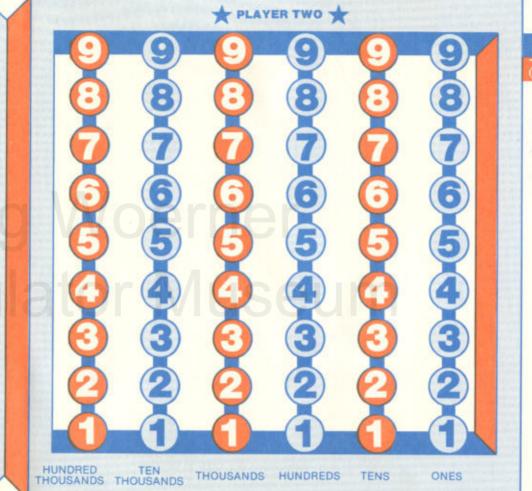
2. Press (a) , (a) WRITE IT, Level ((1) or (2))

3. Listen carefully as the number is spoken. "Write" the number on the Speak & Math.

4. If your answer is correct, tell what digit is in the "place" you chose and put one of your markers on the correct bead on your abacus board. If your answer is incorrect or if there is a zero in the "place" you called, do not place a marker on the board.

The first player with five markers on the board wins.

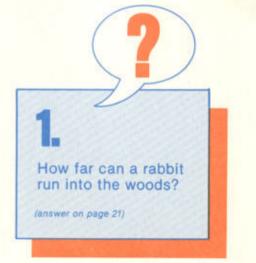






Example: You choose the tens place. Speak & Math says "one hundred twenty four." Put your marker on the 2 in the tens column of your abacus.





two

three



an you save the burning building? To put out the fire, you'll need:

· two or more players

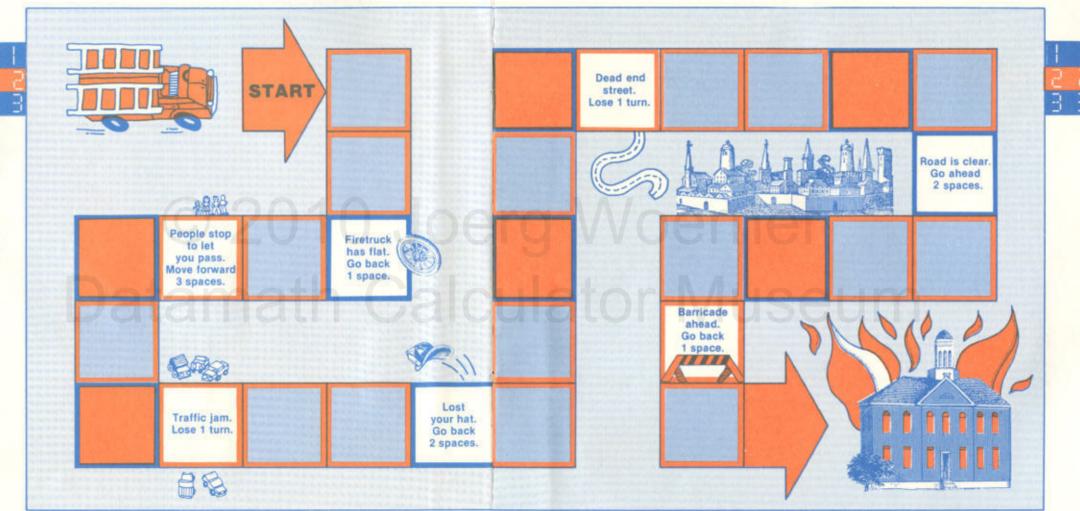
a marker for each player
Put your marker on START and decide
who goes first. To decide who goes first

who goes first. To decide who goes first, press and . Each player works one problem. The player with the correct answer closest to 10 goes first.

For your turn, press (2) WRITE IT, the level (1), (2) or (3) key and (5). Solve the problem.

- If your answer is correct on the first try, move 2 spaces.
- If your answer is correct on the second try, move 1 space.
- If your answer is incorrect, do not move.
- If you land on a white square, follow the directions on the square.

Be the first player to put out the fire.



five

four

You are driving a

bus. At the first stop

three people board.

At the second stop

get off. At the third

and six get off. How

stop, eight board

old is the driver?

(answer on page 21)

seven board and two

elect a car name. Cut that name out of a newspaper or magazine ad. Let the car name be your marker. Conserve gas in this game. Each correct answer saves gas. Each incorrect answer wastes gas and moves players closer to an empty gas tank.

To play, you need:

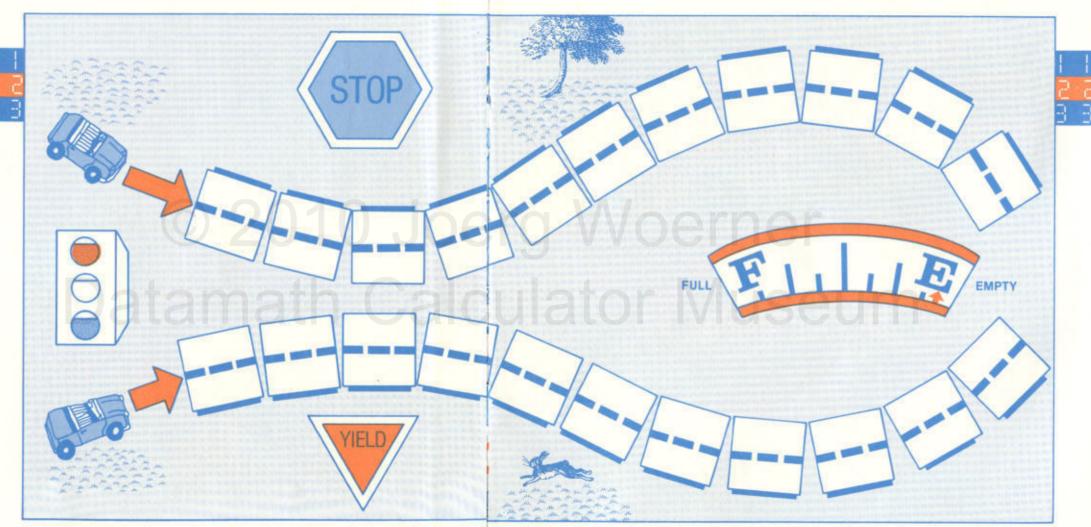
· two or more players

• car names for markers

Press (a), an operation (+), (-), (X), (-)

or (MIX IT, a level (), (2) or (3)) and (6)

Take turns solving problems. If you answer the problem correctly, you save gas and do not have to move your car. If your answer is wrong, you burn gas and must move your car 2 spaces. The first car to reach EMPTY is out of gas and loses the game. The car nearest FULL is the winner.



Number Magic

- Think of a number
- Add the number to itself
- Multiply by 4
- Divide by 8.

Do you have the same number you started with?

(answer on page 21)

SIX

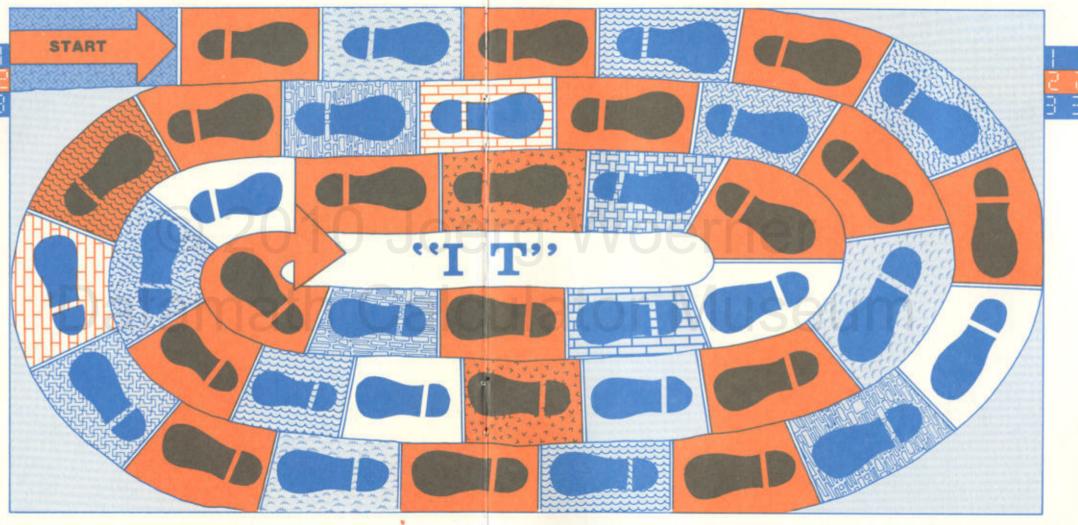
Il you need to play this game is your Speak & Math and some friends. You can play this game anywhere - inside or outside. Use the board below or just find a big area and actually take the steps (begin 20 steps away from "IT.")

One person must be "IT." "IT" uses Speak & Math. Decide who will be "IT." Other players take turns asking "May I take (1, 2 or 3) steps?"

"IT" says "yes, if you can answer this." "IT" then begins a problem with Speak & Math and can use problems in SOLVE IT or MIX IT. The player must listen carefully and give an answer. If the player is correct, the player takes the asked-for number of steps. If the player's answer is incorrect, the player cannot move. The first player to reach "IT" wins and becomes the new "IT."

For a player to take 1 step, "IT" enters problems on Level 1. For a player to take 2 steps, "IT" enters problems on Level 2. For a player to take 3 steps, "IT" enters problems on Level 3.

"IT" can use Solve IT or (MIX IT. "IT" decides the operation $(+,-,\times \text{ or }+)$. "IT" must use the same level as the number of asked-for steps.



If a rooster sitting on the peak of a chicken coop lays three eggs, how many will roll down?

(answer on page 21)

GOING FISHIN

atch the BIG FISH! You will need:

three or more players

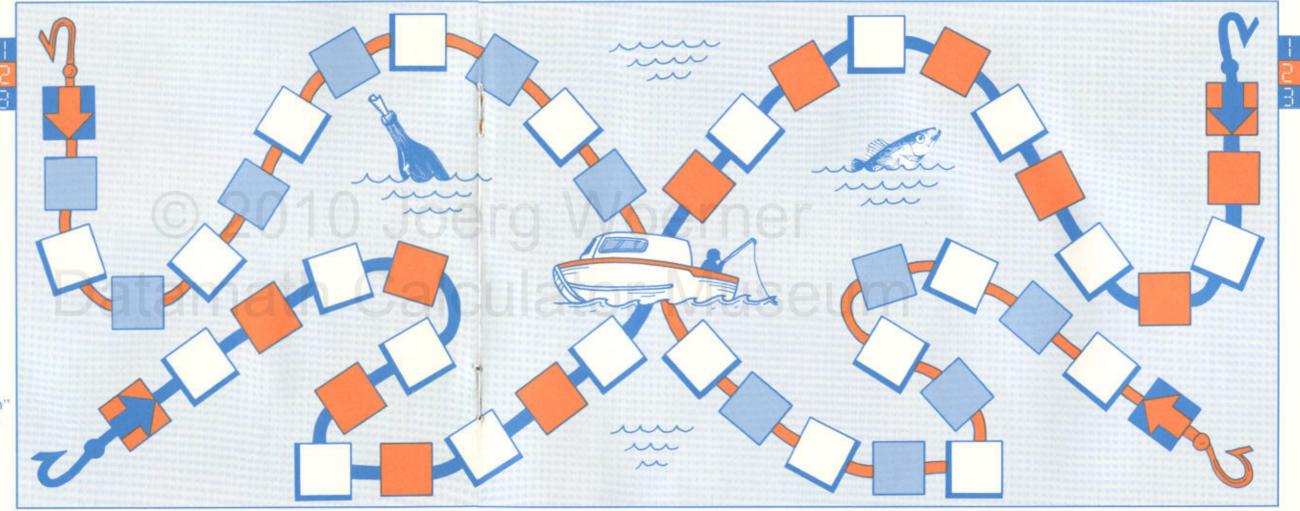
· one marker per player

You are on a fishing boat ready to catch the BIG FISH. The "Boat Captain" operates Speak & Math, while the players try to bring in the catch. Decide who will be the captain and who will fish. All fishers place their markers on a hook.

The captain begins the game using the directions below. If you are the first player to correctly answer the problem *Speak & Math* speaks, you get a "strike" (a "fish" on the hook). After you get a "strike," move your marker up the "line" to land the "fish."

For each correct answer the "fish" is moved one space up the "line." For an incorrect answer the "fish" moves toward the hook one space. The first player to "land" the fish on the boat wins the game.

To begin: "CAPTAIN" presses , a word PROBLEMS or GREATER THAN/LESS THAN, Level (1), 2 or 3) and . "Captain" enters the answer spoken. If the answer is incorrect, the next person fishing can answer.



10

ten

eleven

PAR FOR THE COURSE

3 3 3

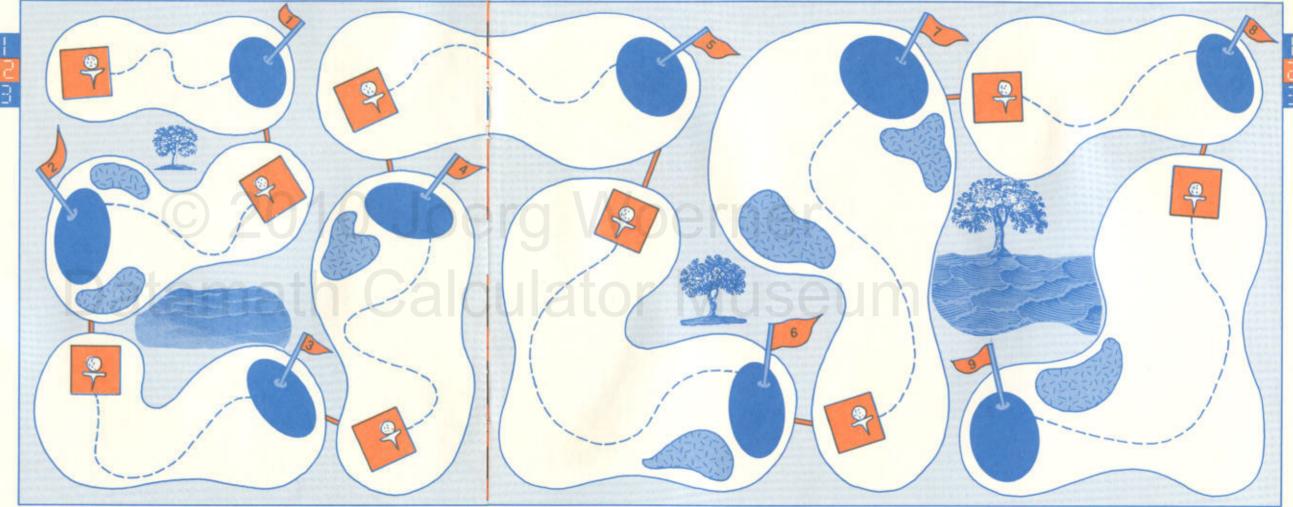
lay golf alone, with friends or with teams.
TEE OFF for each hole by working a
solve it problem. Count your STROKES
per hole by adding the digits of your
answer until you have a one-digit
number. Example: Answer = 268 (268 = 2
+6+8=16, 1+6=7. For Hole #1, score 7 strokes).

Play NINE "Holes." The player with the least number of strokes is the winner. An incorrect answer scores a stroke value of 9 (as in the friendly game of golf). Team players should add strokes for each hole and divide by the number of players on the team (average number of strokes). You will need paper and pencil to keep score.

To Play: Decide which golfer will tee off first.
Then, take turns. To begin, press , operation

(+ , - , × , + or *), Level (1 , 2 or

3) and . Good luck. May the best "golfer" win!



12

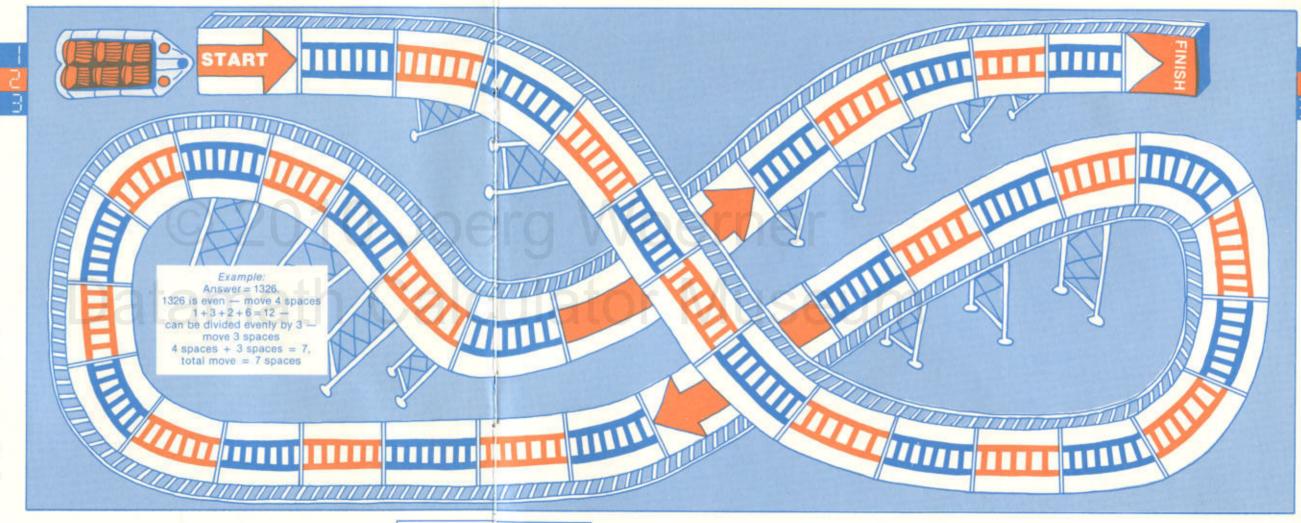


ide the Loop-the-Loop. The first player to reach the end, WINS! Follow the rules below to move through the Loop-the-Loop. Your answer may fit more than one rule. Be sure to use all of your moves. To play you need:

- · two or more players
- · markers for each player

To move, solve a "MIX IT" problem. If your answer is incorrect, do not move. If your answer is correct, use your answer and these rules to move.

- If your answer is even (ends in 0, 2, 4, 6, or 8) move 4 spaces.
- If your answer is odd (ends in 1, 3, 5, 7, or 9) move 3 spaces.
- If your answer can be divided evenly by 5 (ends in 0 or 5) move 2 spaces.
- If your answer can be divided evenly by 3 (digits add up to a multiple of 3) move 3 spaces.
- If your answer can be divided evenly by 9 (digits add up to a multiple of 9) move 5 spaces.



TAKE THE BANDIT TO JAIL

2 2 2

ou've captured the bandit at the scene of the robbery. Can you get the bandit to jail? To play you will need:

· two or more players

· a marker for each player

Place your markers at the robbery scene.

Decide who goes first and take turns answering the problems. Press (a) WORD PROBLEMS,

level (1), 2 or 3) and 6 .

Choose a path to take the bandit to jail.

 If you choose one of the LONG paths, you answer a problem. Add the digits of your answer until you have a one digit number. Move that number of spaces.

For example, Answer = 268 (2+6+8=16, 1+6=7). Move 7 spaces. Work only one problem for each turn. When you land on a circle without a number, follow the instructions. Lose your turn if your answer is incorrect.

 If you choose the short path, you must answer one complete set of problems (5) correctly to move 1 space.

The first player to get the bandit to jail wins the game.

in road your hat Go back o back to the Lose 2 turns Water in road Lose 1 turn Go back Stop for Wrong turn parade Go back

What number am I? I have six digits and each one is the same. The next number has seven digits. (enswer on page 21)

sixteen

seventeen

10



STORE



hree stores are trying to get your business. The GREATER THAN STORE has the highest prices in town, but gives free stamps. The LESS THAN STORE has lower prices, but also lower quality products.

The INFLATION FIGHTER STORE has the best buys. Try to make the best buys. Each answer, correct or incorrect, counts as one purchase. After five purchases, the shopper with the most buys at the INFLATION FIGHTER STORE wins. You will need: . two or more players

· five markers (the same color) for each player

To play, decide who goes first and then take turns. To begin, press (a), (x) GREATER/LESS, level (1), (2) or (3) and (60).

If your answer is correct, shop at the INFLATION FIGHTER store. Put one of your markers on your purchase in the INFLATION FIGHTER store.

If your answer is incorrect and should have been greater than, shop at the GREATER THAN store. Put one marker on your purchase in the GREATER THAN store.

If your answer is incorrect and should have been less than, shop at the LESS THAN store. Put one marker on your purchase in the LESS THAN store.

18

Continue playing until all shoppers have made five purchases.

























A three-

layer cake



oranges

One gallon

of sour milk



One loaf of

stale bread





banana peels



One 12 oz. can

of mixed nuts

(when opened

only half full)

Two dented cans of corn





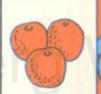
beginning to mold



One dozen eggs

(3 are cracked)





Three oranges





One pound



Two cans of corn





A 12 oz. can of mixed nuts

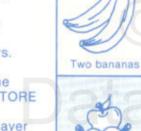








of lettuce beginning to turn brown





Three apples

CORN

One small

can of corn

One small

head of lettuce





One pound

of steak







nineteen

of steak



of bread



Two heads of lettuce

of steak. beginning to spoil



A one -

layer cake

QUARK is a very small particle. Quarks are still a mystery because not much is known about them. In this game you find the smallest number. It is a mystery what number you will find. You can play alone or with a friend.

To play, find the answer to a NUMBER STUMPER problem. Add the digits of your answer until you have the smallest number possible. If you solve Number Stumper correctly, subtract that number from 100. Add the number to 100 if you are incorrect. At the end of five rounds, the player with the smallest number wins.

To begin, press (N), (#) NUMBER STUMPER, 2 , or 3) and 6 . Decide who goes first. Take turns playing for five rounds.

What is the largest possible seven Un digit number that has no two digits alike? (answer on page 21)

Work word problems A and B to have fun discovering things! Then sharpen your math skills with problems C through N. Score Sheet:

289 = 2 + 8 + 9 = 19: 1 + 9 = 10; 1 + 0 = 1; Round 1:

24 = 2 + 4 = 6:

and you solve it correctly, add (1+2+6+8=17). Since 17 has 2 digits,

add again (1+7=8). Then, subtract 8 from 100

(100 - 8 = 92).If you missed the

NUMBER STUMPER number add 8 to 100 (100 + 8 = 108).







B. If you lived 80 years, how many minutes old would you be?

24 hours in a day. There are 365 days in a year.



A. How many minutes are in a year? There are 60 minutes in an hour and

C.
$$2+4+6+8=$$

G.
$$16 + 343 - 350 =$$

K.
$$10 \div 2 =$$

The solutions are at the bottom

They are printed upside down.

of this page.

H.
$$2 \times 8 =$$

N. $84 \div 4 \div 7 =$



ANSWERS

- half-way, then it starts running out.
- You should know you're driving!
- roosters don't lay eggs
- 999,999
- 9,876,543

3

31

twenty

twenty one

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Datamath Calculator Museum

