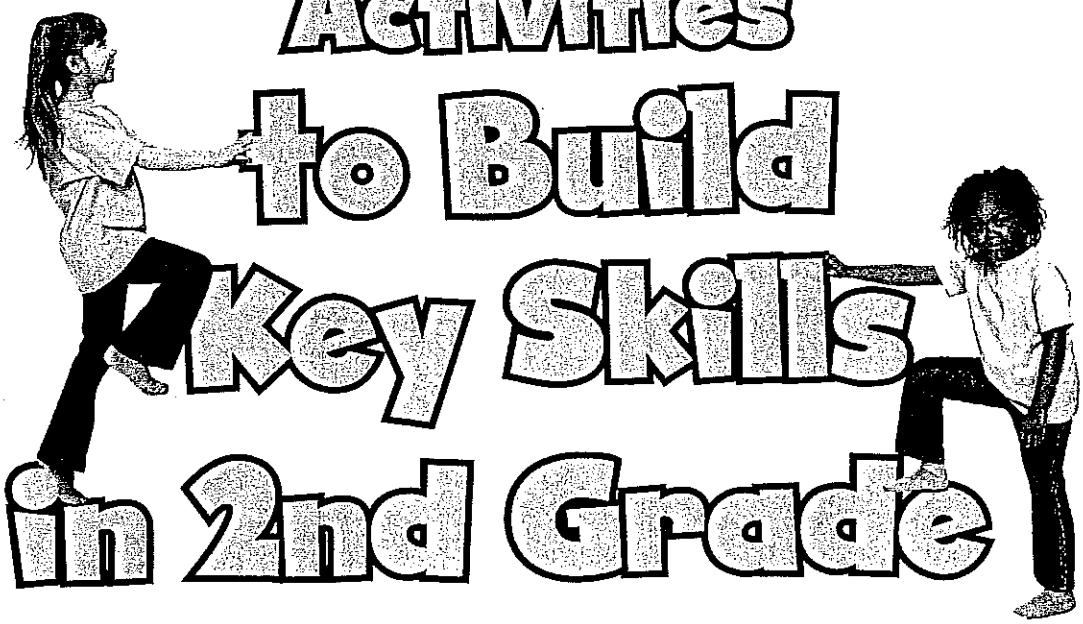
SCHOLASTIC

Must-Know Math™

25 Activities to Build Key Skills in 2nd Grade



Name That Number!

Read each riddle. Find the number in the number bank that answers the riddle. Write it on the line.

Number Bank

216 23 72 430 85 24

1. I am an odd number, greater than 70 and less than 100.
   Who am I? _____

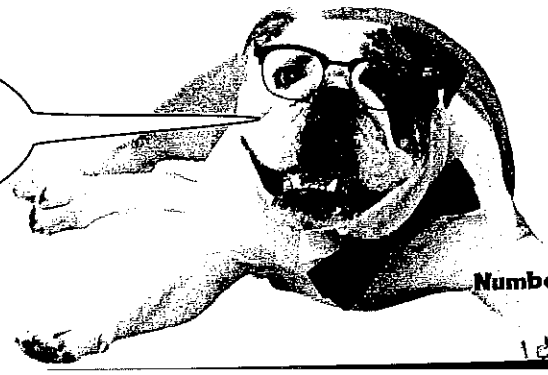
2. I am an even number, greater than 20 and less than 25.
   Who am I? _____

3. I am an even number, greater than 420 and less than 435.
   Who am I? _____

4. I am an odd number, greater than 22 and less than 70.
   Who am I? _____

5. I am an even number, greater than 70 and less than 75.
   Who am I? _____

6. I am an even number, greater than 200 and less than 220.
   Who am I? _____



Bug Picnic

This picnic has been taken over! Count each kind of bug. Then complete the sentences on page 5 with >, <, or =.

How many of each?

_____

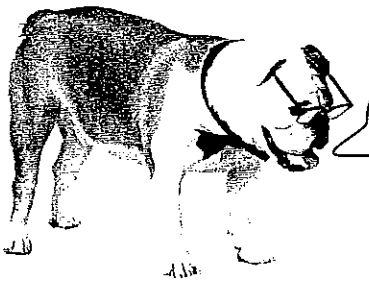
_____

_____

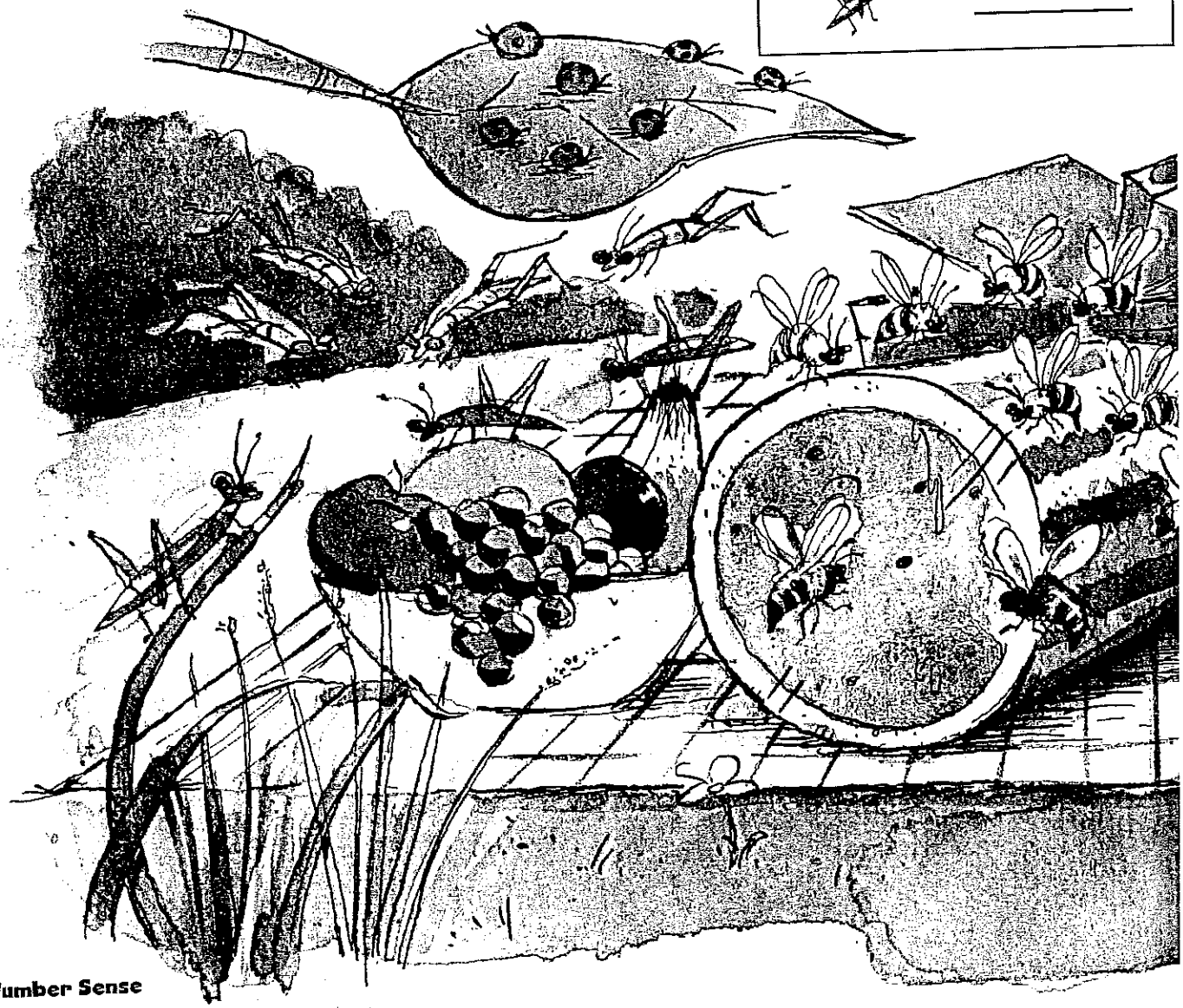
_____

_____

_____



REMEMBER:
> means more than: 2 > 1
< means less than: 1 < 2
= means equal to: 2 = 2



1. The number of  _____ the number of  .

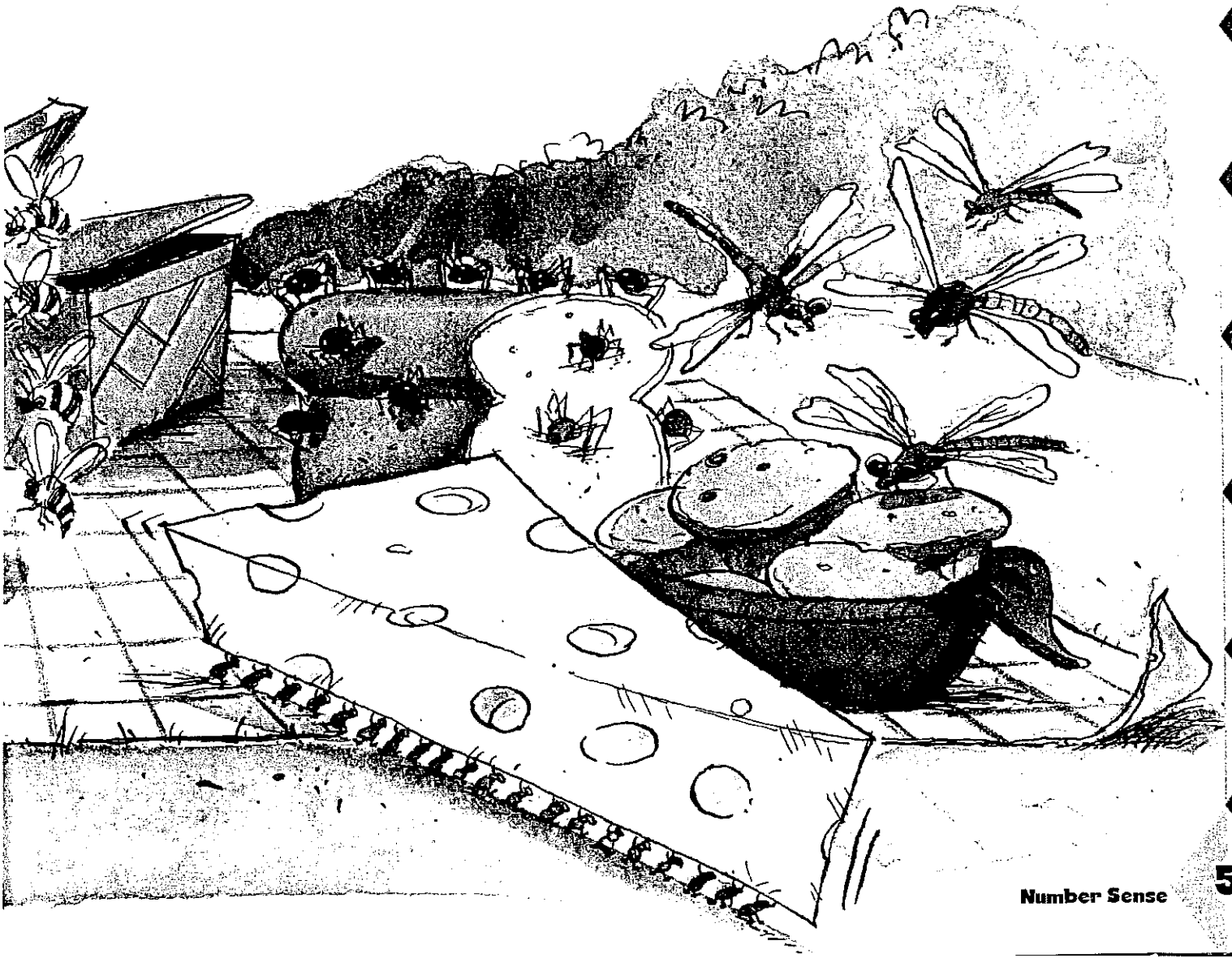
2. The number of  _____ the number of  .

3. The number of  _____ the number of  .

4. The number of  in the air _____ the number of  on the cookies.

5. The number of  _____ the number of  .

6. The number of  _____ the number of  .



Frog Race!

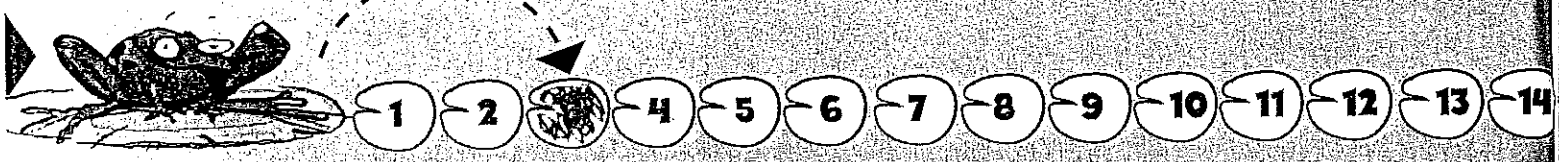
These frogs are in a race! First, color each lily pad that the frogs will land on as they jump across the pond. (We gave you each frog's first jump.) Then answer the questions.

1 Write the total number of jumps each frog needed to get across the pond.

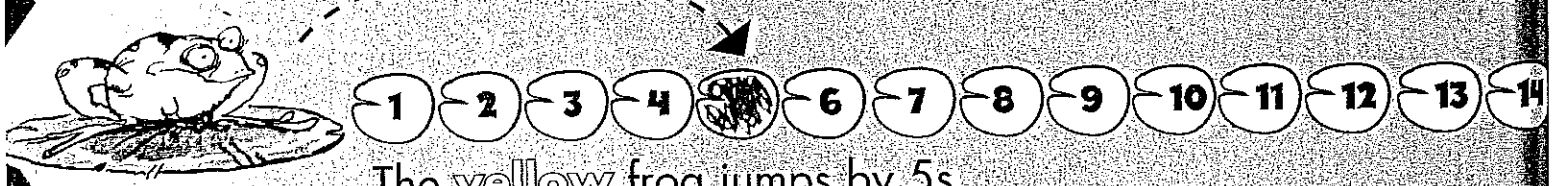
Red frog: _____

Yellow frog: _____

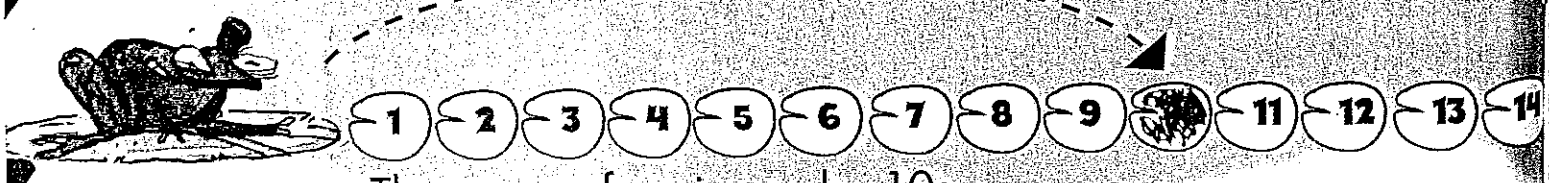
Green frog: _____



The **red** frog jumps by 3s.



The yellow frog jumps by 5s.



The **green** frog jumps by 10s.

2 Write which frog came in first. (Hint: It was the frog with the fewest number of jumps.) _____
Which came in second?_____
Which came in third? _____

3 On which lily pads did both the red frog and the yellow frog land?
_____ and _____

4 On which lily pads did both the yellow frog and the green frog land?
_____, _____, and _____

5 Which lily pad did all three frogs land on?_____

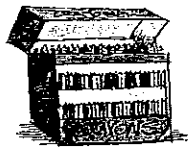
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

How Many Crayons?

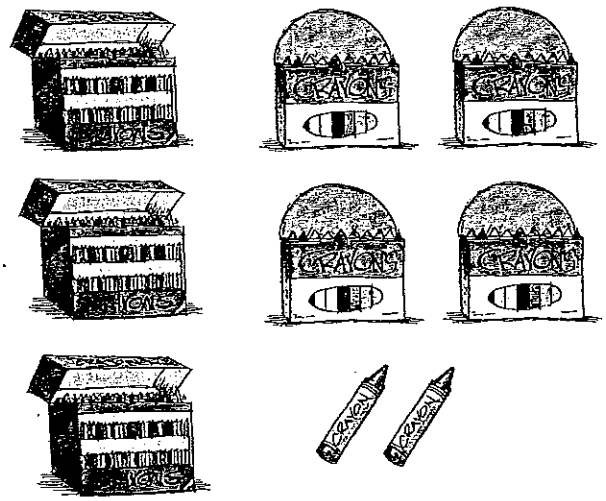
Fill in the chart that goes with each picture. Then write a number sentence, or equation, that shows the total number of crayons. We did the first one for you.

This box holds 100 crayons. 

This box holds 10 crayons. 

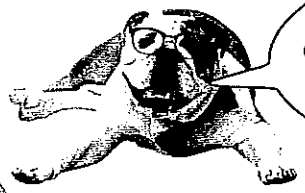
This is 1 crayon. 

1



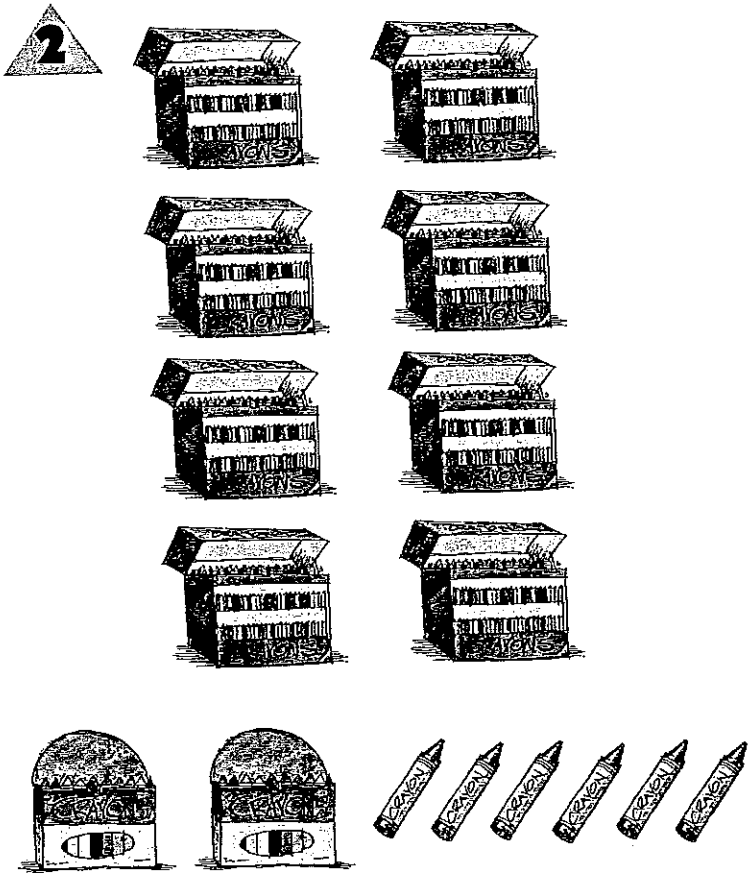
Hundreds	Tens	Ones
3	4	2

300 + 40 + 2 = 342



Writing a number as an addition problem is called expanded notation.

2



Hundreds	Tens	Ones

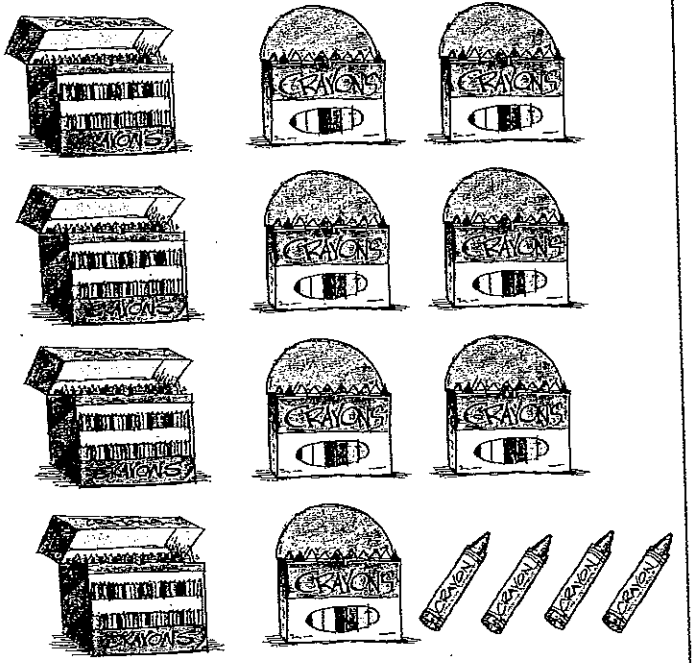
_____ + _____ + _____ = _____

3

Hundreds	Tens	Ones

_____+_____+_____=_____

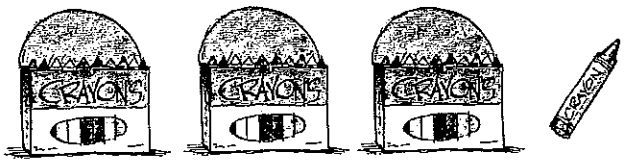
4



Hundreds	Tens	Ones

_____+_____+_____=_____

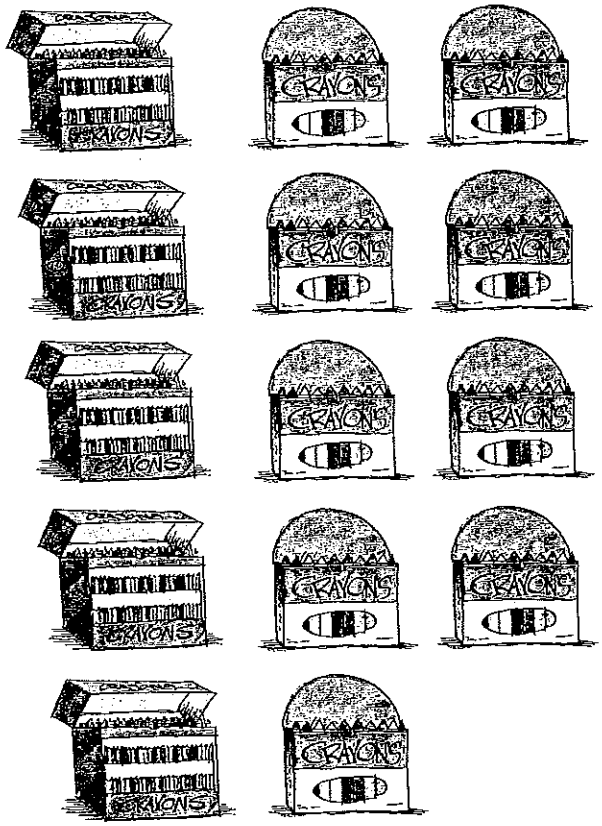
5



Hundreds	Tens	Ones

_____+_____+_____=_____

6



Hundreds	Tens	Ones

_____+_____+_____=_____

Place-Value Puzzler

Answer the questions. Then use your answers to solve the riddle at the bottom of the page. We did the first one for you.

239

hundreds place (how many hundreds are in the number)

tens place (how many tens are in the number)

ones place (how many ones are in the number)

1 How many tens are there in 347? 4 G

2 How many ones are there in 520? _____ A

3 How many hundreds are there in 381? _____ B

4 How many ones are there in 261? _____ E

5 How many hundreds are there in 642? _____ L

6 How many tens are there in 757? _____ D

What kind of bird never goes to the barber?

_____	_____	_____	_____	_____	_____	_____	G	_____	_____	!
0	3	0	6	5	1	0	4	6	1	

Fact-Family Reunion

Complete the number sentences in the number bank. Then write each sentence in the correct fact family. We did the first one for you.

If we know 5 + 1 = 6,
we also know 1 + 5 = 6
6 − 5 = 1
6 − 1 = 5
These related facts are called a fact family.

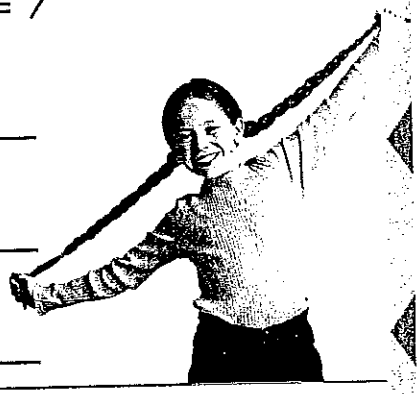
Number Bank

- 11 − 6 = 5
- ☐ + 3 = 12
- 12 ☐ 9 = 3
- 7 + 8 = ☐
- ☐ − 5 = 6
- 3 ☐ 9 = 12
- 8 ☐ 7 = 15
- 15 − ☐ = 8
- 6 ☐ 5 = 11

1 Jose's Fact Family: 5 + 6 = 11

11 − 6 = 5

2 Kat's Fact Family: 15 − 8 = 7

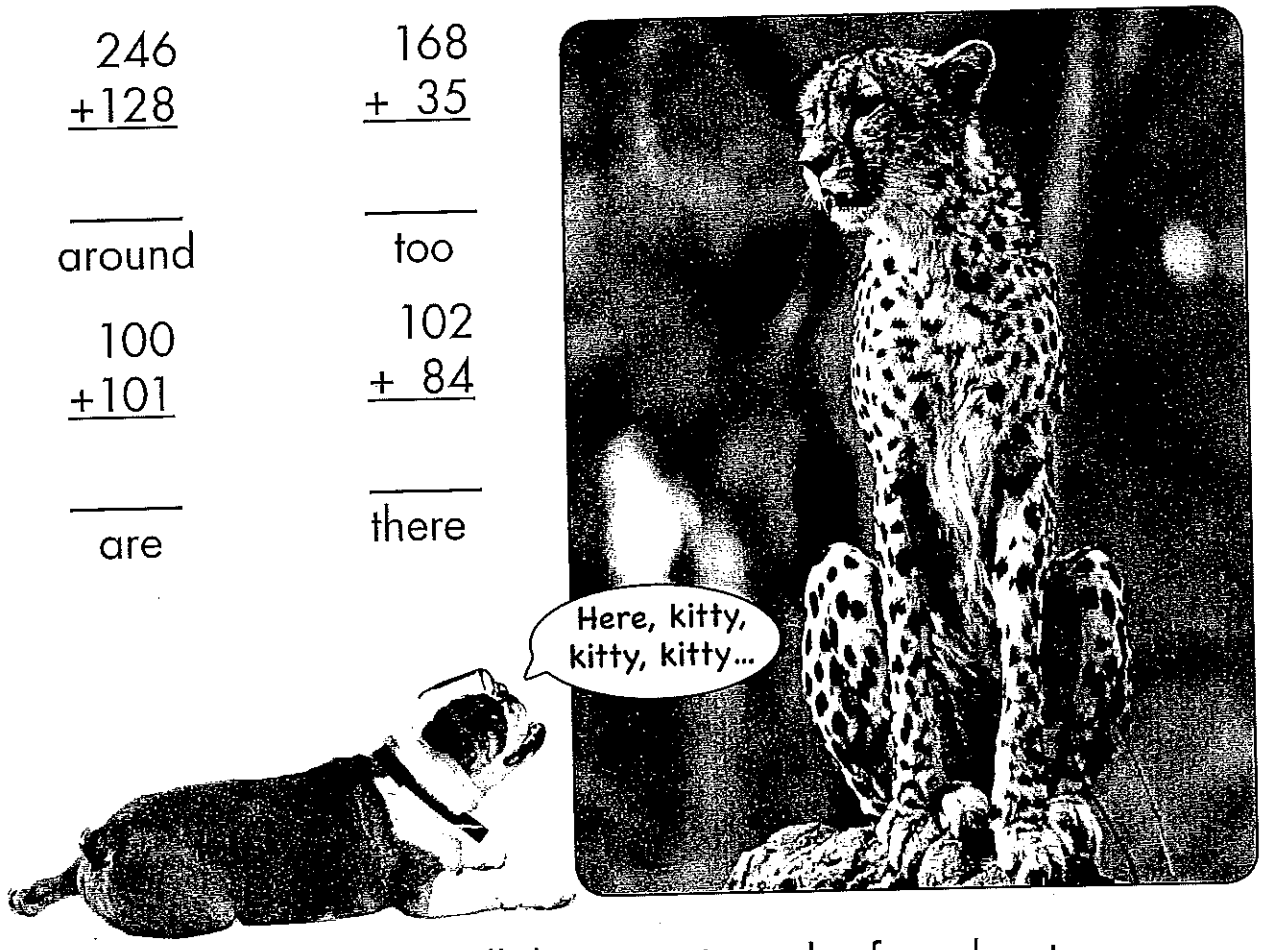


3 Bob's Fact Family: 12 − 3 = 9

Mixed-Up Math

First, find the sums. Then follow the directions below to answer the riddle. We did the first one for you.

16 + 7 23 Because	246 +128 ____ around	168 + 35 ____ too
125 +130 ____ many	100 +101 ____ are	102 + 84 ____ there
154 +107 ____ cheetahs		



On the lines below, write all the sums in order from least to greatest. Then copy the word that goes with each one onto the line beneath it. We did the first one for you.

Why don't animals in Africa like to play games?

23	____	____	____
Because	____	____	____
____	____	____	
____	____	____	!

It's a Record!

First add. Then copy each digit from your answer into the matching colored box below it. You will find world records! We did the first one for you.

1

$$\begin{array}{r} {}^{1}9^{1}9 \\ +\ 8\,2 \\ \hline 1\,8\,1 \end{array}$$

Tallest man ever:

[8] feet, [1][1] inches

2

$$\begin{array}{r} 3\,5\,4 \\ +\ 2\,4\,3 \\ \hline \square\,\square\,\square \end{array}$$

Highest jump for a guinea pig:

[ ][ ] . [ ] inches

3

$$\begin{array}{r} 8\,5 \\ +\ 9\,8 \\ \hline \square\,\square\,\square \end{array}$$

Heaviest carrot:

[ ][ ] pounds, 1 [ ] ounces

4

$$\begin{array}{r} 4\,5\,9 \\ +\ 1\,8\,8 \\ \hline \square\,\square\,\square \end{array}$$

Longest time balancing on one foot:

[ ][ ] hours, [ ] 0 minutes

5

$$\begin{array}{r} 2\,0\,1 \\ +\ 1\,1 \\ \hline \square\,\square\,\square \end{array}$$

Oldest human ever:

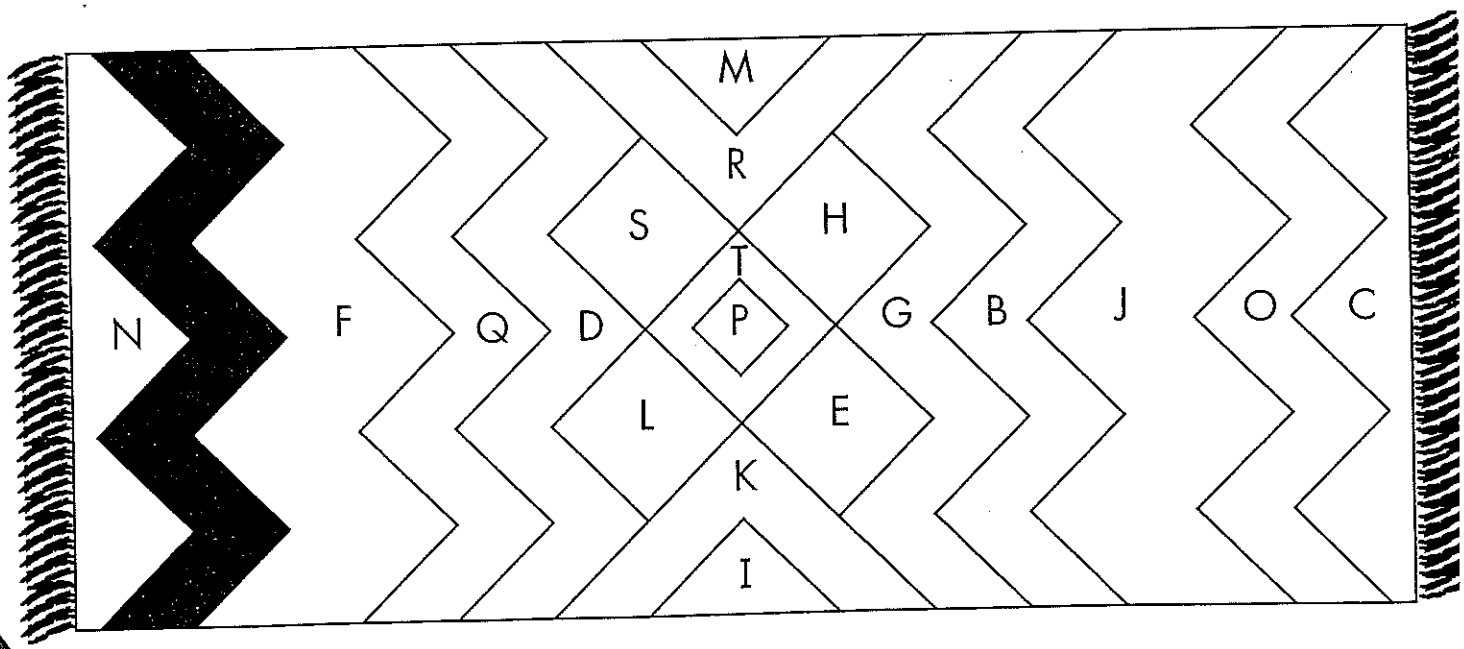
[ ][ ][ ] years, 164 days

Mystery Pattern

First, subtract. Next, find the sentence in the color code that describes the answer. Then find the piece of the blanket pattern that matches the problem's letter, and color it in. We did the first one for you.

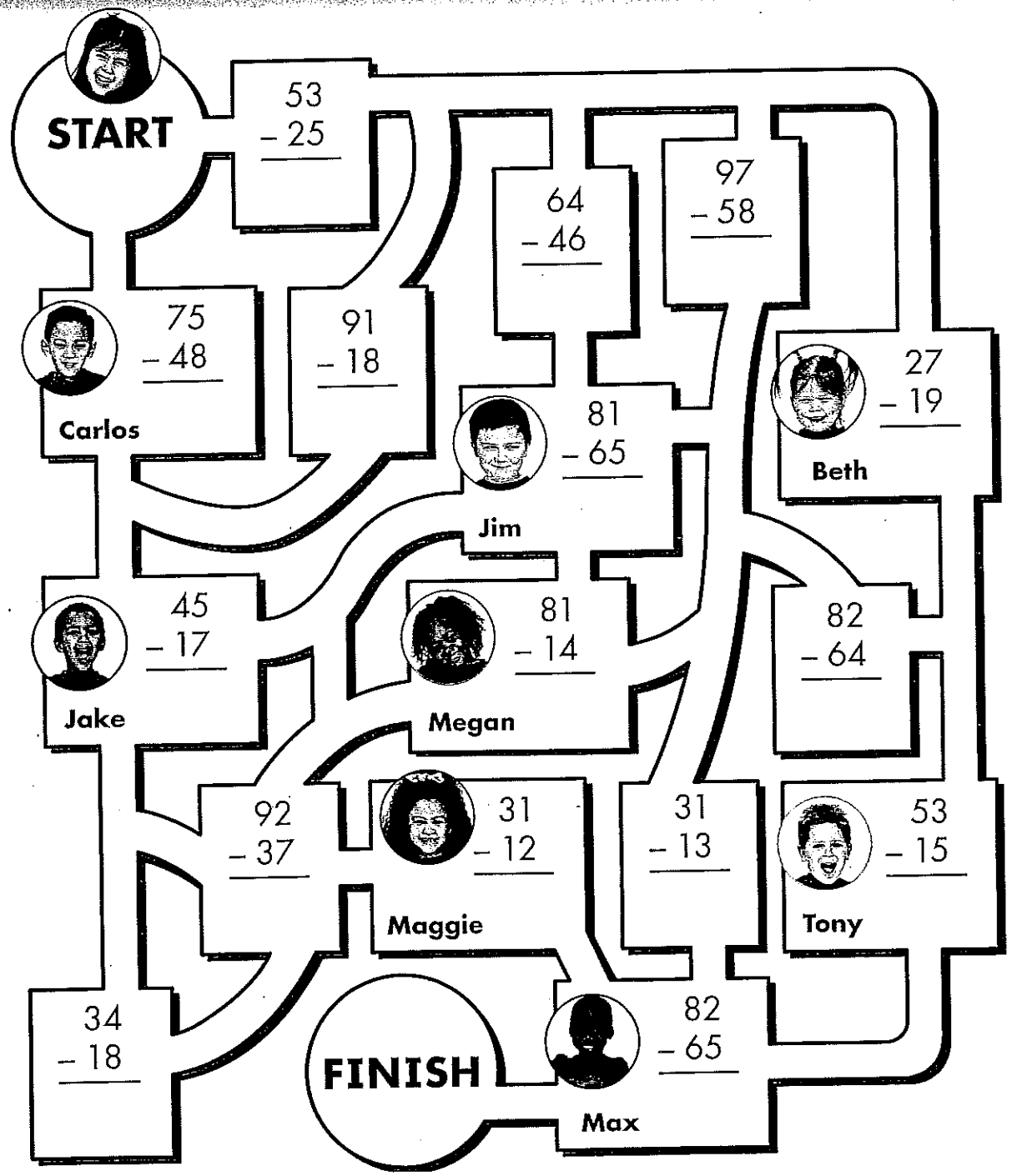
A. 882 −245 = 637	**B.** 562 −314	**C.** 781 −436	**D.** 862 −463	**E.** 219 −127
F. 416 −333	**G.** 732 −343	**H.** 424 −232	**I.** 551 −413	**J.** 610 −107
K. 824 −296	**L.** 637 −155	**M.** 805 −274	**N.** 603 −296	**O.** 390 −251
P. 701 −259	**Q.** 638 −373	**R.** 376 −247	**S.** 260 −148	**T.** 532 −233

There's a **2** in the **ones** place.	
There's a **2** in the **tens** place.	
There's a **2** in the **hundreds** place.	
There's a **3** in the **ones** place.	
There's a **3** in the **tens** place.	
There's a **3** in the **hundreds** place.	



Hide-and-Seek

Hannah's friends are hiding. Can you help her find them? First, subtract. Then follow the maze through the problems with **odd** answers.



Which friends did Hannah not find?

_____ _____ _____ _____

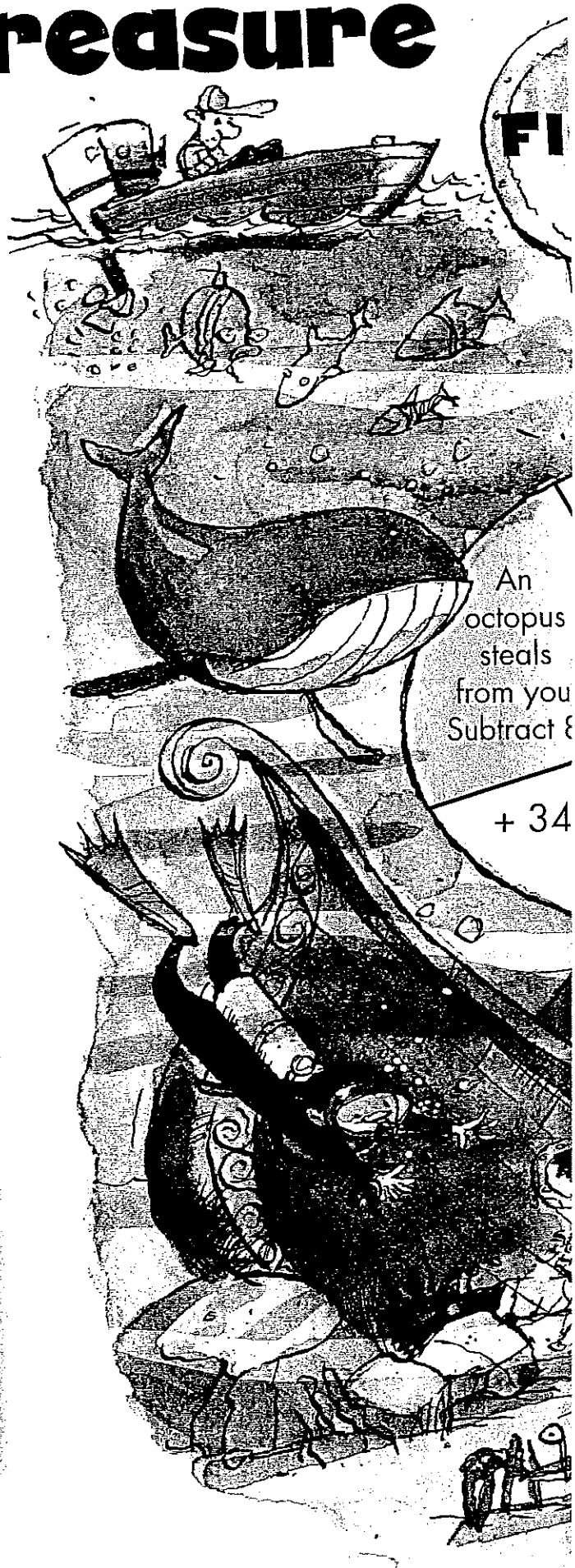
Sunken Treasure

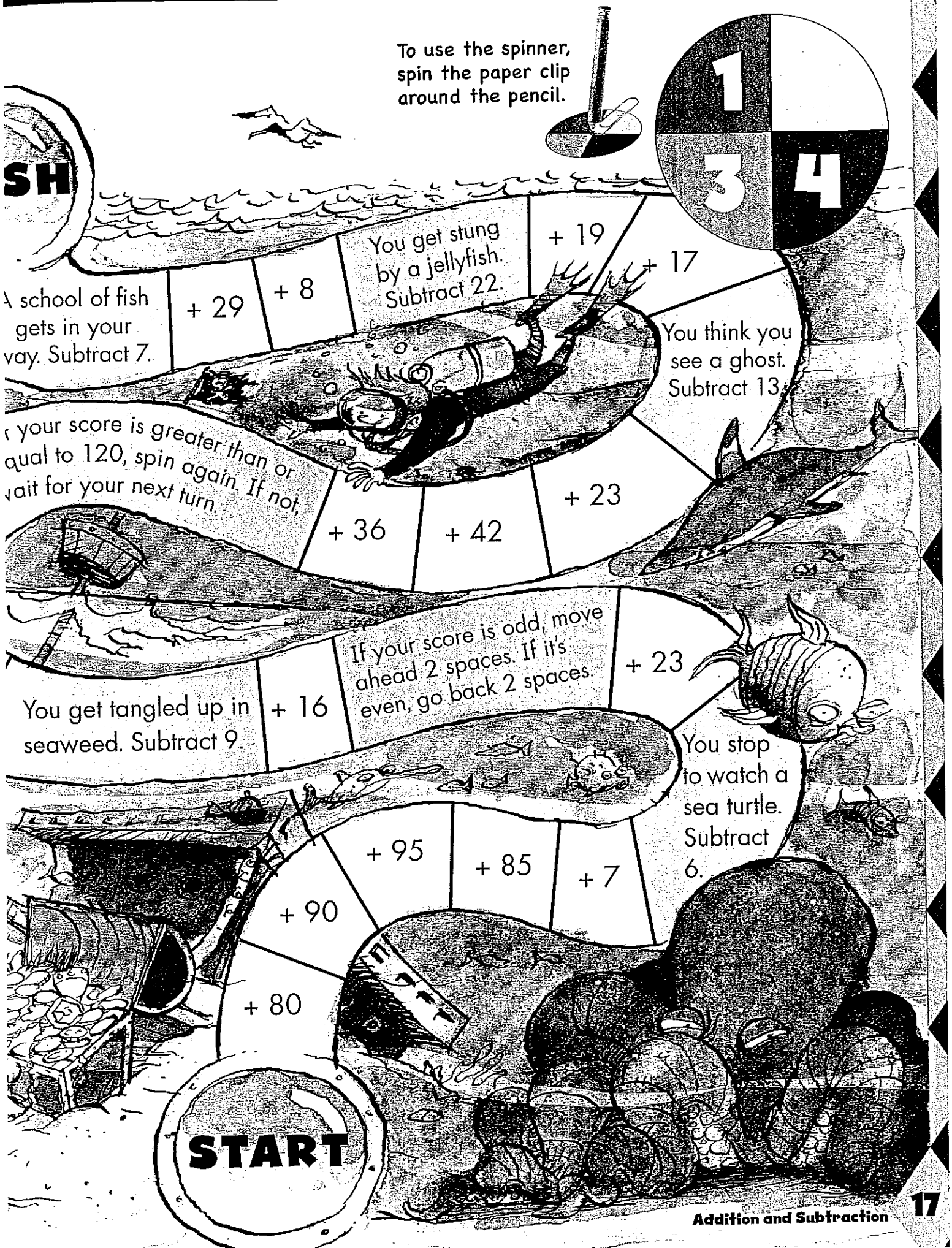
WHAT YOU NEED

- Two to four players
- Paper and a pencil for each player (to keep score)
- A paper clip and a pencil (for the spinner)
- A game piece, such as a coin, eraser, or stone for each player

HOW TO PLAY

- You are diving for treasure! Place all game pieces on START. When it's your turn, spin. "Swim" ahead that number of spaces.
- You start with zero gold coins. If you land on a yellow space, you pick up coins. Add the number on the space to your score.
- If you land on an orange space, follow the directions.
- The first player to get back to the boat adds 15 points to his or her score.
- The game ends when all players have reached the boat. The player with the most gold coins wins.




To use the spinner, spin the paper clip around the pencil.
1
3
4
SH
+ 19
You get stung by a jellyfish. Subtract 22.
+ 17
A school of fish gets in your way. Subtract 7.
+ 29
+ 8
You think you see a ghost. Subtract 13.
your score is greater than or qual to 120, spin again. If not, ait for your next turn.
+ 23
+ 36
+ 42
If your score is odd, move ahead 2 spaces. If it's even, go back 2 spaces.
+ 23
You get tangled up in seaweed. Subtract 9.
+ 16
You stop to watch a sea turtle. Subtract 6.
+ 95
+ 85
+ 7
+ 90
+ 80
START

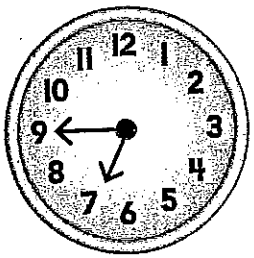
Tell Me the Time

Draw the hands on the clock or write the time in words. The words you need are in the word bank.

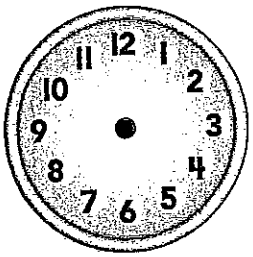
WORD BANK

half past five quarter to three noon quarter to seven

1

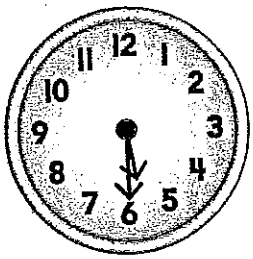


2



quarter after three

3



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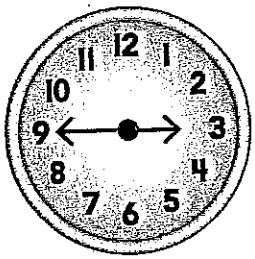

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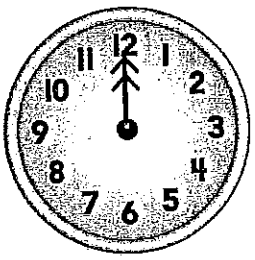
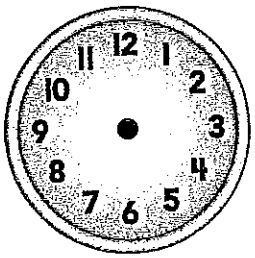
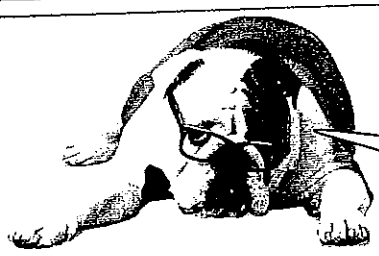


6



twelve forty-five



There can be more than one way to say the time. What's another way to say quarter to six?

Wolf Time

The Big Bad Wolf (BBW) has a busy day! Read his schedule. Then answer the questions.

Time	What He Did
7:15 – 8:15 a.m.	Go running in the park—work on huffing and puffing
8:45 – 9:15 a.m.	Have breakfast—try out that new tofu scramble recipe
9:30 –10:00 a.m.	Go to Pinkies for a manicure—front claws only
10:30 – 12:30 p.m.	Interview with *Once Upon a Time* magazine
1:00 – 2:15 p.m.	Lunch with Little Red Riding Hood and her grandma
4:30 – 5:00 p.m.	Try out for PBS nature show
5:45 – 7:00 p.m.	Work on my book, *The Truth About the Three Little Pigs*
7:30 – 9:45 p.m.	Dinner party at the gingerbread house
10:15 – 10:30 p.m.	E-mail cousin Sarah in Yellowstone National Park

1 At 7:30 a.m., what is the BBW doing? _____

2 At 8:00 p.m., what is the BBW doing? _____

3 How long does the BBW spend at lunch with Little Red Riding Hood? _____

4 What time does the BBW e-mail his cousin? _____

5 How much time passes between when the BBW finishes working on his book and the beginning of the dinner party?

_____

Snack-Machine Math

Buy snacks from the vending machine. Use a separate sheet of paper to do your work.

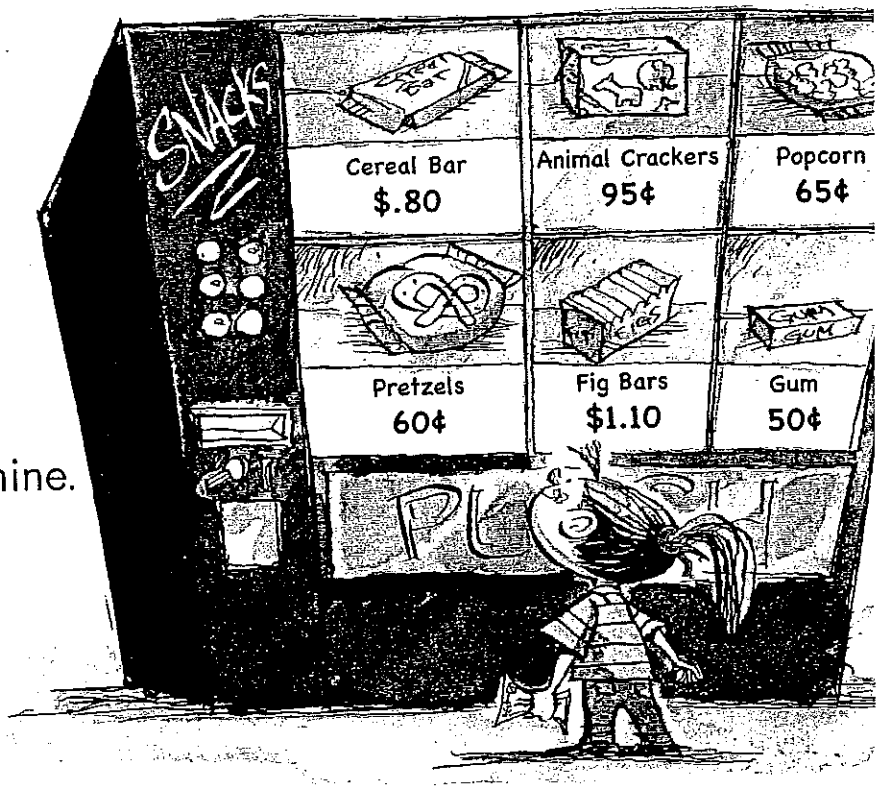
1 You want a cereal bar. You put $1.00 into the machine. How much change do you get?

_____

2 You want pretzels. You put $0.75 into the machine.

(Circle) your change:

$.05 $.15 $.50

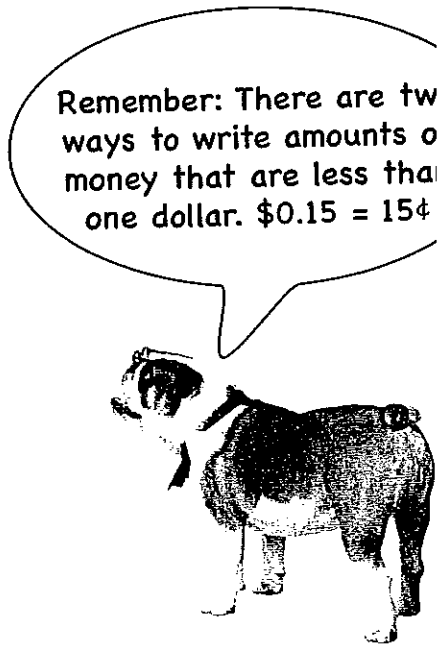


3 You want fig bars.

(Circle) what you need to put in:

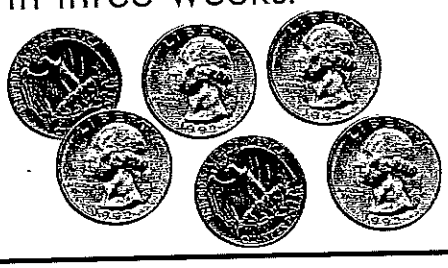
4 You want popcorn. You have 

How much more do you need? _____



Money Tic-Tac-Toe

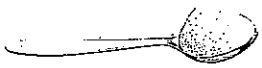
Read each problem. If the amount of money shown is correct, draw an "O" on the box. If it is not correct, draw an "X." You win when you get three Os in a row!

Rob had $1.50. He spent $1.25 for a snack. This is what he had left: 	Paula had $0.90. She lent her sister $0.20. This is what Paula had left: 	Ryan had $0.35. He found a quarter on the sidewalk. This is what he has now: 
Carter had $0.40. After raking leaves, he had $1.40. This is how much he earned: 	Alison has $0.20 more than Matt. Matt has $0.90. This is how much Alison has: 	Jeff's allowance is $0.50 a week. This is how much he saves in three weeks: 
Dan has $0.60. Deb has $0.50. Together they have this much: 	Liz bought two pencils. One cost $0.89. The other cost $0.60. This is how much she spent: 	Emma bought a sticker that cost $0.79. She gave the clerk $1.00. This was her change: 

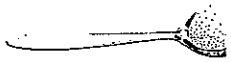
How Sweet It Is!

Look at the pictograph. Then answer the questions.

How much sugar is in a serving of cereal?

 = 1 teaspoon of sugar  = $\frac{1}{2}$ teaspoon of sugar

Grape Nuts	
Corn Flakes	
Rice Krispies	
Life	
Frosted Mini-Wheats	
Honey Nut Cheerios	
Frosted Flakes	
Trix	

1. What does each  stand for? _____

2. Which cereals have the most sugar? _____

3. Which cereal has the least sugar? _____

4. How many teaspoons of sugar are in one serving of Life? _____

5. Which cereal has more sugar, Rice Krispies or Frosted Mini-Wheats?

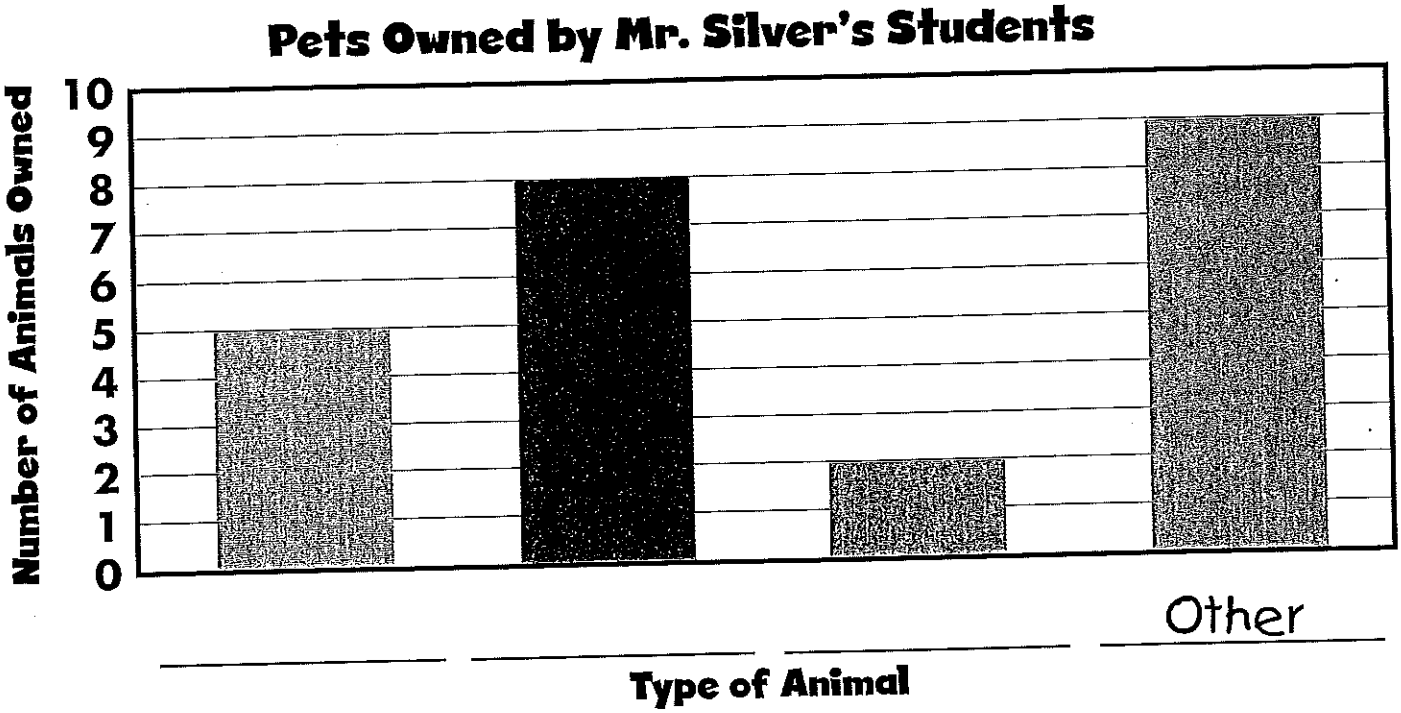
   _____

6. Marc's mom doesn't want him to have more than 1 teaspoon of sugar in his breakfast cereal. Which cereals could he eat? _____

   _____

Pet Poll

This bar graph shows how many pets belong to the students in Mr. Silver's class. Follow the directions to label the graph. Then answer the questions.



1. Label the graph to show that students in the class have 8 cats.

2. Label the graph to show that students in the class have 2 birds.

3. Label the graph to show that students in the class have 5 dogs.

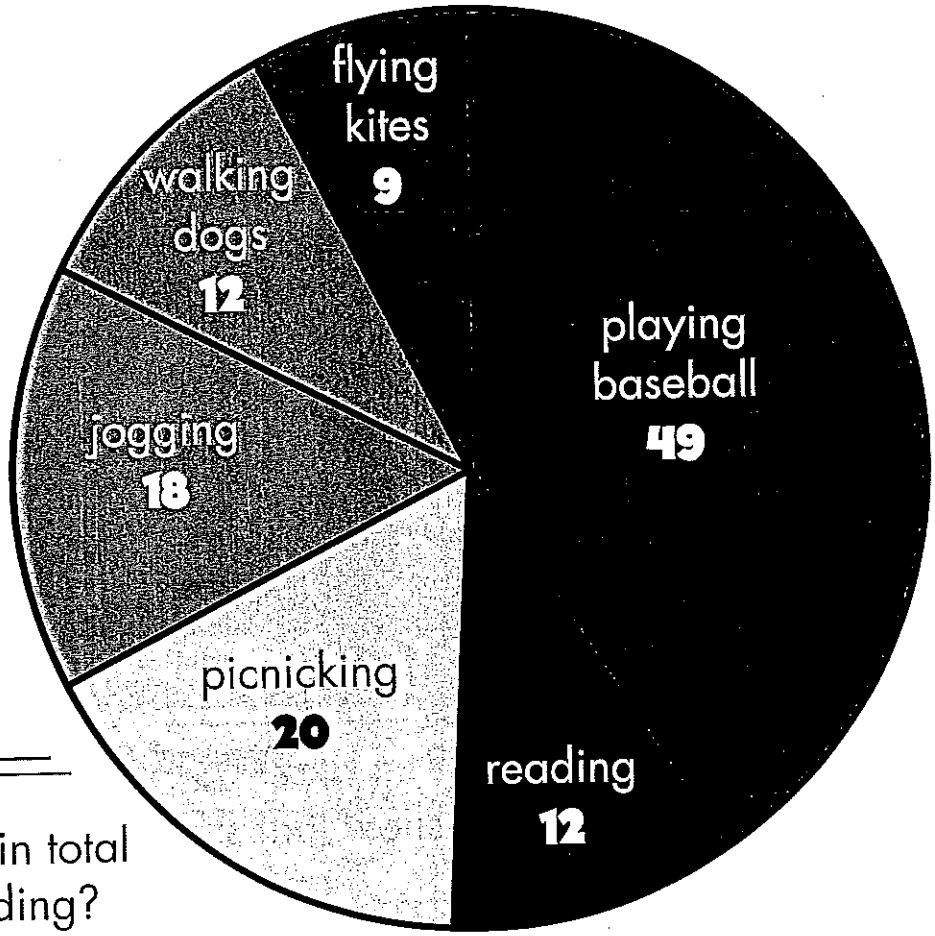
4. How many animals do students own that are not dogs, cats, or birds? _____

5. How many more dogs are owned than birds? _____

Does this graph tell you how many students are in Mr. Silver's class?
❑ yes ❑ no Explain your answer: _____

A Day at the Park

Look at the circle graph. Then answer the questions about what people were doing at the park.



1 How many people were walking dogs?

_____

2 How many more people were jogging than reading?

_____

3 Which activity had the greatest number of people doing it?

_____

4 How many people in total were picnicking and reading?

_____

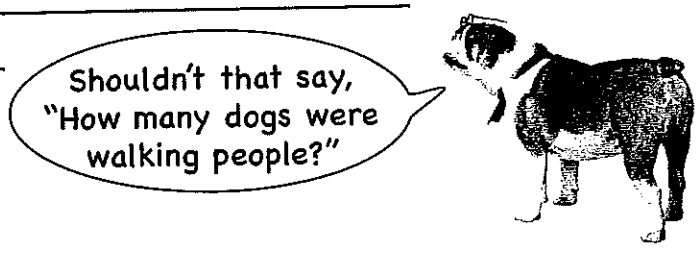
5 Which activities had an equal number of people doing them?

_____

6 The people who run the park are thinking of adding either more benches or another baseball diamond. Which do you think they should add? Why? _____

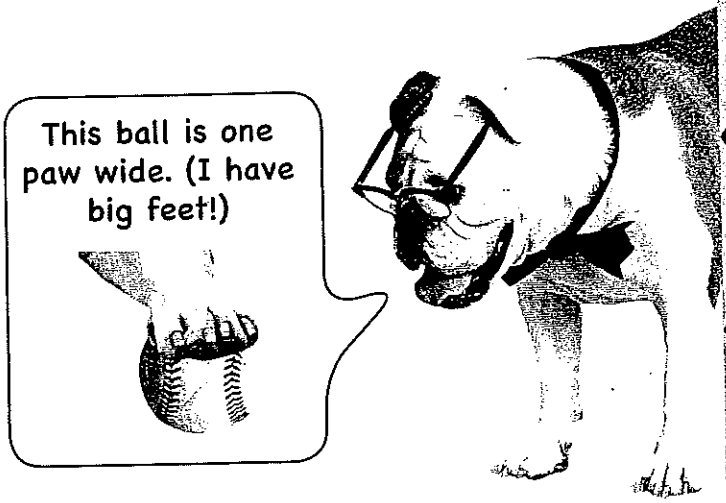
_____

_____



Hands-On Measurement

Did you know you can use your hands to measure things? Choose a partner. Work together to measure things in the room with your hands. There are many possible answers. Just find any object that matches the description in each riddle!



1 I see an object.
It can't hide.
It's not very big,
only one fist wide!

What is it? The object we found is _____.

2 I see an object.
You could find it if you tried.
It's longer than two of
your hands spread wide!

What is it? The object we found is _____.

3 I see an object.
So does my friend.
It's four hands wide
from end to end!

What is it? The object we found is _____.

4 I see an object.
Some say it's grand.
It's as wide as your finger,
but taller than a hand.

What is it? The object we found is _____.

The Right Measurement

For each pair in **red**, circle the unit of measure that makes the most sense.

1 The distance from New York City to Los Angeles, California is 2,451 **miles / feet**.

2 Spencer's dog weighs 39 **pounds / tons**.

3 Larry poured 1 **cup / quart** of milk on his cereal.

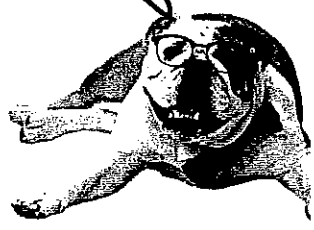
4 A jet weighs about 180 **tons / pounds**.

5 Max's hamster weighs $3\frac{1}{2}$ **ounces / pounds**.

6 Jane's pencil is six **inches / feet** long.

7 Our bathtub holds 52 **gallons / cups** of water.

Remember:
1 foot = 12 inches
1 yard = 3 feet
1 mile = 5,280 feet
1 pound = 16 ounces
1 ton = 2,000 pounds
1 cup = 16 tablespoons
1 quart = 4 cups
1 gallon = 4 quarts



8 Grandma put a **tablespoon / cup** of honey in her cup of tea.

9 The school bus is 36 **feet / yards** long.

10 Melanie's bed is 75 **inches / feet** long.

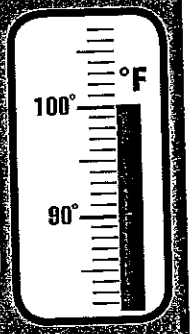
Some Like It Hot

These animals can live in very hot weather! Write the temperatures next to the thermometers that show the highest temperature each animal can handle. Then answer the questions.

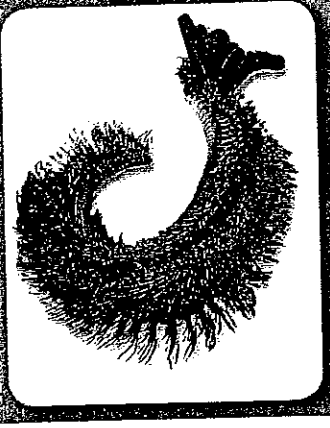
Antelope Jackrabbit

Home: the southwestern United States

Highest Temperature:

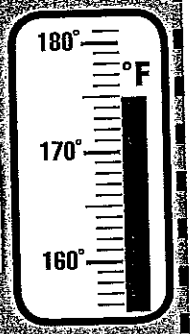


Pompeii Worm



Home: openings on the ocean floor

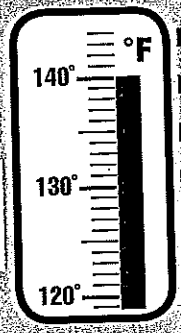
Highest Temperature:



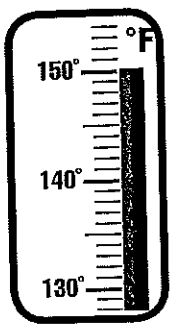
Bactrian Camel

Home: China and Mongolia in Asia

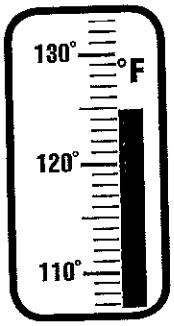
Highest Temperature:



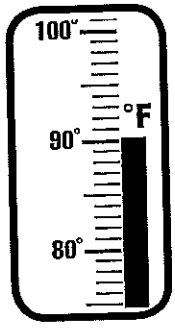
1 For which animals is this too hot?



2 Which animals could live at this temperature?



3 For which animals is this too hot?



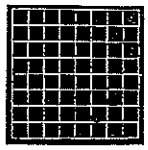
Name That Shape!

First, use the shape bank to fill in the names of the shapes. Then use the letters in the circles to solve the riddle.

SHAPE BANK

square circle triangle trapezoid hexagon octagon

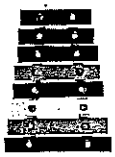
___ ___ (1) ___ (2) ___ (3) ___



___ ___ (4) ___ (5) ___

(6) ___ ___ (7) ___ ___ (8)

___ ___ ___ ___ ___ ___ (9)



___ ___ ___ ___ ___ ___ ___ ___ (10)

___ ___ ___ (11) ___ (12)

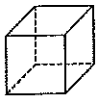
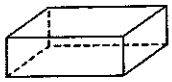
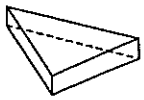
What are two things you never eat for breakfast?

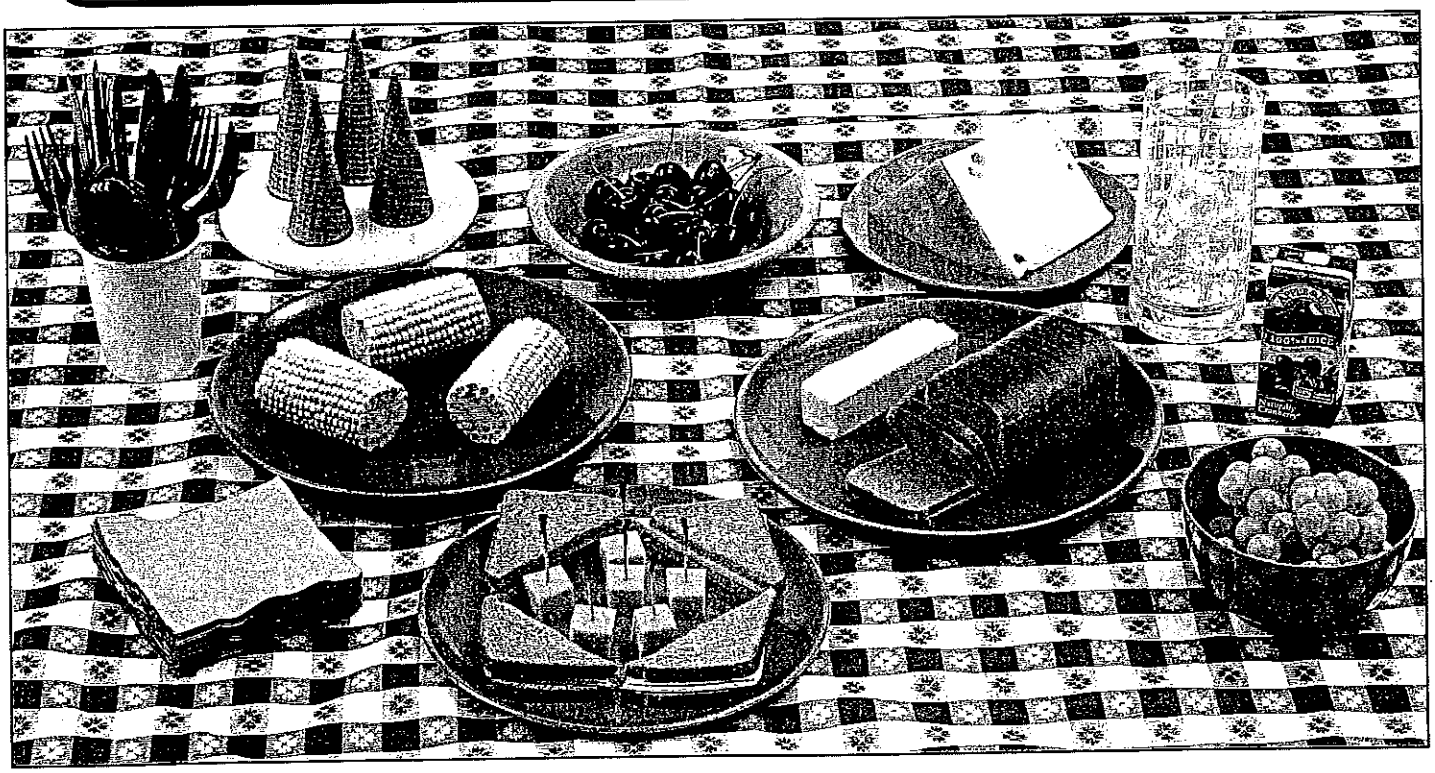
___	___	___	___	___		___	___	___		___	___	___	___	___	___
3	4	8	11	6		7	2	10		10	1	9	2	12	5

I Spy 3-D Shapes

Dig into our delicious lunch of 3-D shapes! Look at the picture, then answer the questions. Use the shape bank to help you.

SHAPE BANK

cone  cube  cylinder  sphere  rectangular prism  triangular prism 



1. What shape are the grapes and cherries? _____

2. What shape is the cheese on the orange plate? _____

3. Are there more cones or cylinders? _____

4. Name two things that are rectangular prisms.

_____

3-D stands for 3-Dimensional. 3-D shapes are solid, not flat.

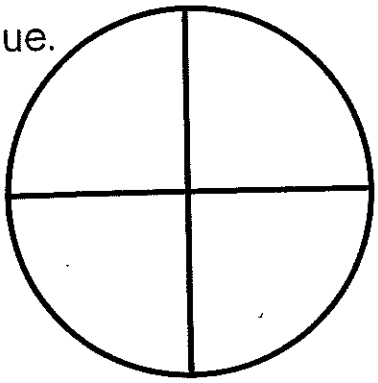
Fun With Fourths

Read each problem to find out how many fourths to color or circle.

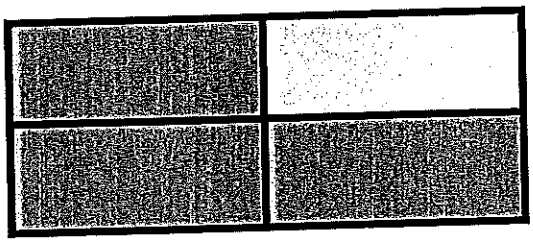
1 Color $\frac{1}{4}$ blue.

Color $\frac{2}{4}$ yellow.

Color $\frac{1}{4}$ red.



2 (Circle) your answers.



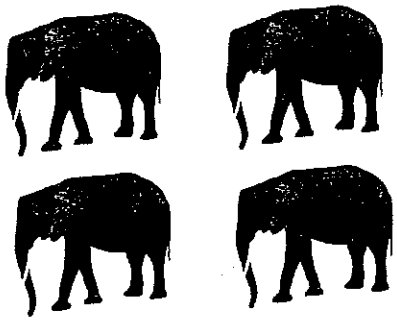
How much is green?

$\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$

How much is yellow?

$\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$

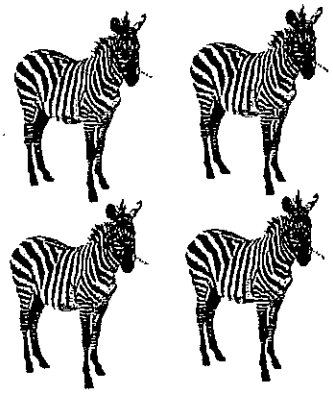
3 Circle $\frac{1}{4}$ of the elephants.



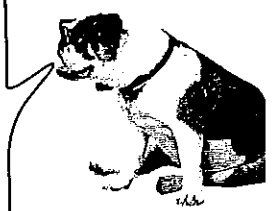
4 Circle $\frac{2}{4}$ of the kangaroos.

5 Circle $\frac{3}{4}$ of the skunks.

6 Circle $\frac{4}{4}$ of the zebras.



Remember that the bottom number in a fraction is the denominator. It tells the total number of equal parts. The top number is the numerator. It tells how many parts of the total you are talking about. (Circle) all the numerators on this page.

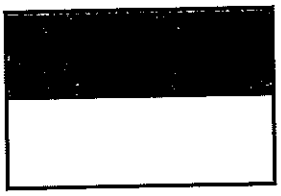


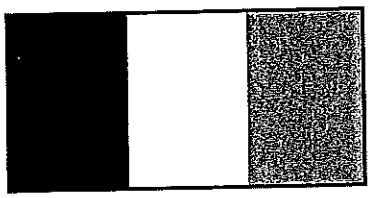
Flag Fractions

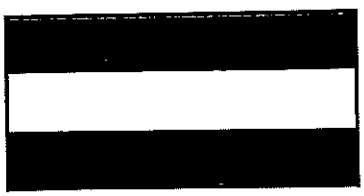
Use the key to label the flags.

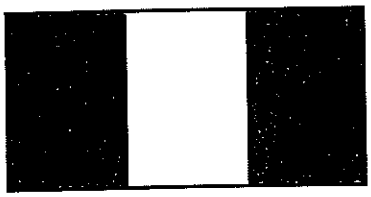
Key

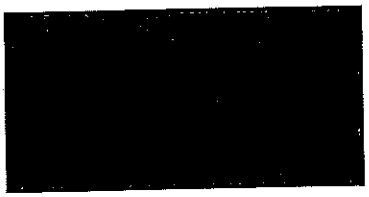
$\frac{1}{3}$ green – Ireland
$\frac{2}{3}$ green – Nigeria
$\frac{1}{2}$ blue – Ukraine
$\frac{2}{3}$ red – Austria
$\frac{3}{3}$ green – Libya
$\frac{1}{2}$ red – Indonesia

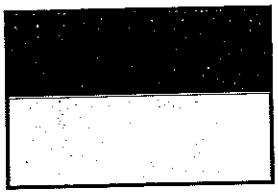












Draw a (circle) around the flags that are $\frac{1}{3}$ white.

Draw a ☆ on the flag with the largest fraction of red.