

Become a Bookworm

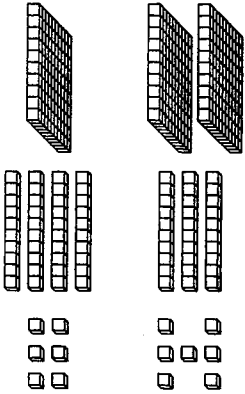
Find a book with lots of pages (a novel would be great) and open it to the last page. Read the number.

Now, put your finger in the book where you think it's about halfway. Estimate what page number you'll see, then open it to see how close you are.

Try estimating and opening at different pages (20, 50, ...)!

Story Time

Write a story that includes these 2 numbers:



Sum It Up

What is the greatest number you can add to 431 to get a sum less than 700?

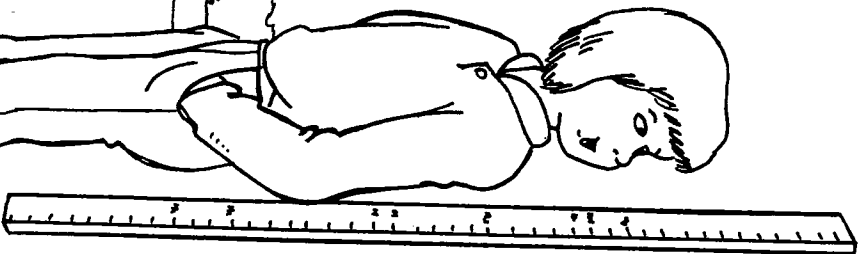
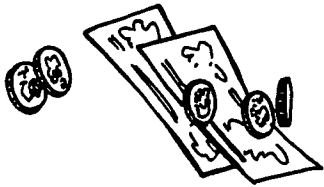
What is the least number you can add to 431 to get a sum greater than 700?

Fold

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Math at Home

Math is such an important part of everything I do. I use it to spend my allowance or to see how much I grew. I use it to cook in the kitchen Or to plan a special day. Even racing my little brother, Uses math in a special way!



Math at Home 1

Make the Numbers

Use the numbers shown to make:

- the greatest possible number: 5 3 8
- the least possible number: 7 9 6
- a number in between: 6 4 8

Change the Pattern

Write 3 different patterns that start with 1, 3, ...

Ask a friend to tell the pattern rule for each pattern.

a) 1, 3, _____

b) 1, 3, _____

c) 1, 3, _____

Think About It!

Sam is counting coins. He says:

"25, 50, 60, 70, 80, 90, 95, 96, 97."

What coins does he have?

Mike has 38 cents in 7 coins.

What coins could they be?



Spot the Pattern Mix-up

Can you find the mistake in this pattern?

A B B C C
C A B B C
C C A B B
C C C A B
B C C A C
B B C C C

Is there a quick way to spot the mix-up?

Make up your own and try to stump a friend!

Cruising Down the River

Here are the lengths of some Canadian rivers.

Back River	974 km
Red Deer River	724 km
La Grande Rivière	893 km
Albany River	982 km
Skeena River	579 km

List the rivers from longest to shortest.

Find the rivers on a map of Canada. Compare their lengths visually.

Be a Collector!

Work with some friends.

Decide on a small item to collect such as buttons, acorns, or bottle caps.

Collect as many as you can.

Each day, count the number brought to school.

How many do you have in all?

Keep collecting until you have 1000 items.

Decide on a way to display your collection so the items are easy to count.

Greater Than or Less Than

Take a handful of counters and put them on the table. Use craft sticks or straws to make a greater than ($>$) or less than ($<$) sign beside the pile.

A partner takes another pile of counters to make the sign true.

Together, count the piles.

Was the sign pointing the right way?

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Spend It!

Before you play:

Cut out pictures from several different flyers and give each item a price (each item must be less than \$25). Record prices in dollars. Put them in a bag you can't see through.

On your turn:

At the top of a piece of paper, print \$99.

Pull an item from the bag. Subtract the price from your \$99. Throw the item back in the bag.

Take turns until only one person has money left.

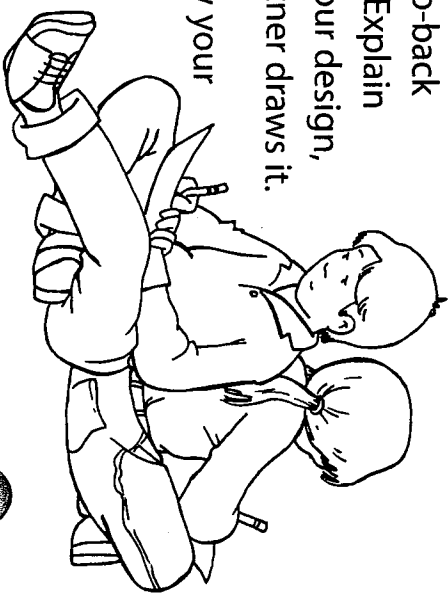
The last player with some cash wins!

Shape Designs

Without showing anyone, draw a design using both shapes and patterns.

Now, sit back-to-back with a partner. Explain how to draw your design, while your partner draws it.

All done? Show your masterpiece!



Hundred Chart for Secret Word

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Secret Word

You'll need:

- ▶ 2 hundred charts (copy the one at the left)
- ▶ centimetre cubes
- ▶ a hard cover book for a barrier

To begin:

Players put their hundred charts in front of them. Then they place the barrier so they cannot see each other's hundred chart.

On your turn:

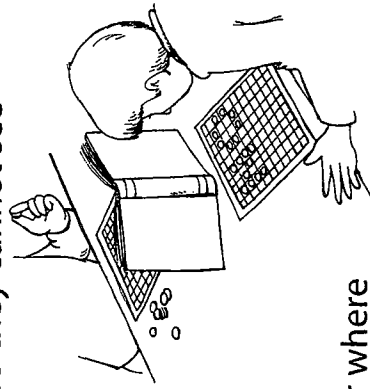
Spell a two-letter word on your hundred chart by covering numbers with centimetre cubes.

Now, explain to your partner where to put cubes in order to discover your secret word.

For each row of cubes, give a hint like: "Put a cube on the 12, then add 10 three times." Cover each number with a cube.

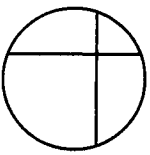
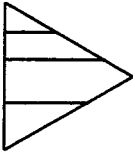
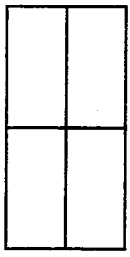
Another hint might be: "Begin at the 12, but this time add 11 three times."

Give pattern hints until the word is done. Take down the barrier to see if the secret word has been revealed!



Fourths? Or Not?

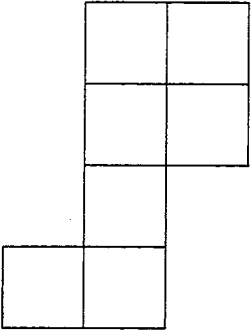
Michel divided these 3 shapes into fourths.



Andrea said there was a problem! What is it?

All the Way Around

If one side of a square is 1 unit, what's the perimeter of the shape below?



_____ units

Now, use the same number of squares to make a shape that has a greater perimeter. How about one that's less?

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Math at Home



Wow!

Sometimes I wonder what the world

Would be like without math.

Would we know how full to fill the tub

When it's time to take a bath?

Would we know how much paint we need

To paint my bedroom wall?

Would we know how far to throw

Fido's slimy, squishy ball?

Things would sure be different;

When it's time to make a meal.

I guess we should be thankful,

That math is very REAL!

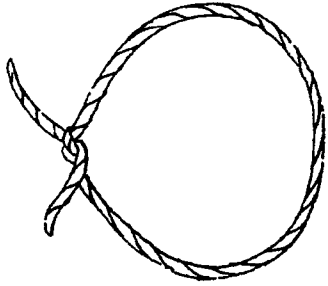


String Shapes

You will need string, scissors, a ruler, and a tape measure.

Cut 4 pieces of string, each about 50 cm long.

Make 4 string loops. Use the string loops to make a triangle, a quadrilateral, a pentagon, and a hexagon.



Make a chart like the one below. Record the data for each shape.

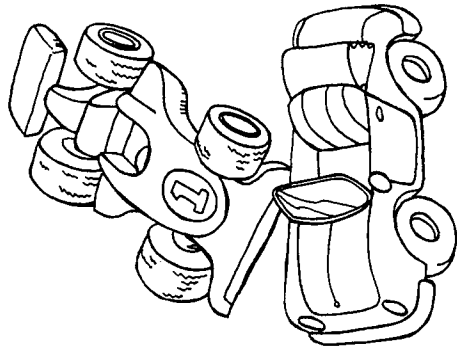
String Shapes			
Picture of the Shape	Number of Sides	Lengths of Sides	Perimeter

Turbo Challenge

Be the first to get your car all the way down the hall.

You'll need:

- 2 toy cars
- 2 counters
- a coin
- a ruler
- a metre stick or metre-long string
- cards numbered 1–10 placed in a bag



On your turn:

Toss the coin.

Heads = centimetre Tails = metre

If you toss heads, choose a number card.

You'll move your car down the hall the same number of centimetres as shown on the card. If you toss tails, move your car ahead 1 m.

In either case, estimate where you will be after you move, and put a counter on that spot. Together, measure to see how close your estimate was.

Done measuring? Drive to your new spot.

Take turns until someone makes it to the end of the hall!

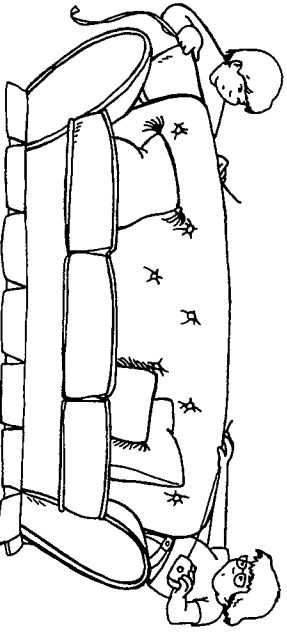
Kilograms at Home

Find foods at home that are labelled in kilograms. Make a list of the items you find. Include the mass of each item.

Kilograms at Home
potatoes - 5 kg
flour - 2.5 kg

Measure It

Jess said the couch was 215 cm long. Drew said it was actually 2 m 15 cm. Who's right?



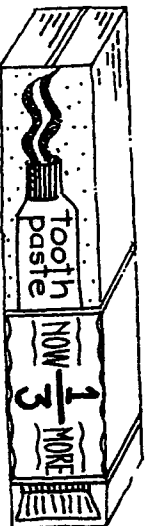
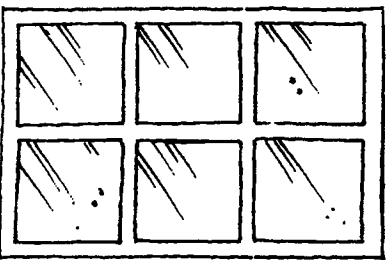
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Fraction Hunt

Look through old magazines, newspapers, and flyers. Find examples of fractions. These can be fraction symbols or pictures of objects divided into equal parts.

Cut out the fractions. Glue them onto a large sheet of paper or cardboard to create a fraction collage.

Make a list of places where fractions are used. Attach the list to your collage.



How Many in a Kilogram?

While at the grocery store, ask a family member to tell how many apples (or bananas, or ...) he or she thinks would be in 1 kg. Then add apples to the scale to make that mass. How close was the estimate?

Fraction Action Grid

Fraction Action

Follow these instructions to draw 3 shapes on the grid.

1. Draw a shape with 8 equal parts.

Colour $\frac{1}{8}$ blue.

Colour $\frac{3}{8}$ red.

Colour $\frac{2}{8}$ green.

What fraction is still white? _____

2. Draw a shape with 12 equal parts.

Colour $\frac{3}{12}$ yellow.

Colour $\frac{1}{12}$ brown.

Colour $\frac{5}{12}$ orange.

What fraction is still white? _____

3. Draw a shape with 10 equal parts.

Use blue, green, and yellow to colour the shape.

What fraction of the shape is blue? _____

What fraction of the shape is green? _____

What fraction of the shape is yellow? _____

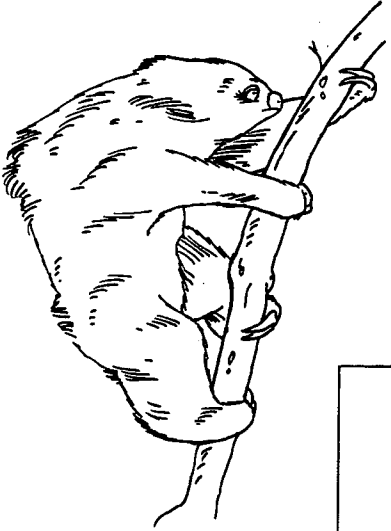
Slow Poke

At its fastest speed, a three-toed sloth travels 2 m in 1 min. If it keeps moving forward at the same speed, how far will it go in 10 min?

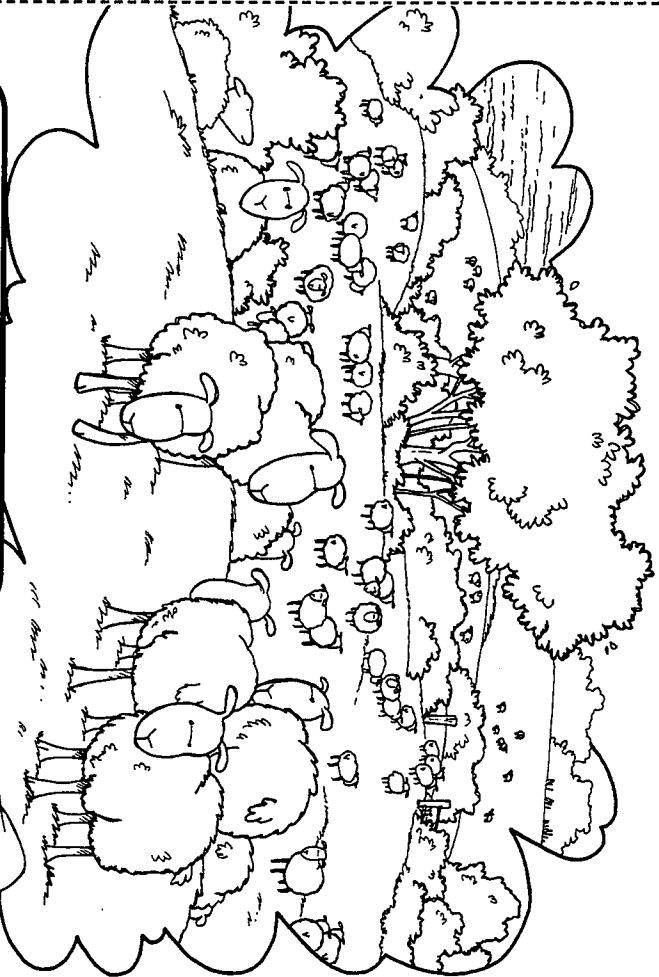
Complete the table:

What patterns do you see?

Time (min)	Distance (m)
1	2



Math at Home



At night I slowly close my eyes
 And start to count some sheep.
 You would think that very quickly,
 I would fall asleep.
 But I get distracted
 Deciding which way is best:
 By 2s, by 5s, by 10s, and more,
 No wonder I get no rest!



Fold

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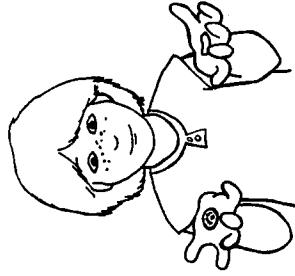
How Much Is a Gram?

A jellybean has a mass of about 1 g.

Search around the house for things that might be less than 1 g, about 1 g, and more than 10 g. Tally your findings.

	Less than 1 g	About 1 g	More than 10 g
Tally			

Now, graph what you found in 2 different ways!



Sharing Cookies

You have 20 cookies.
 You will share them equally with some friends.
 What different numbers of friends can you share the cookies with?
 How many cookies will each person get?

Guess My Product

You'll need:

- counters
- a 1 to 5 spinner
- 5 bowls

Take turns with a partner.

On your turn:

Spin the spinner. Put that many bowls between you and your partner.

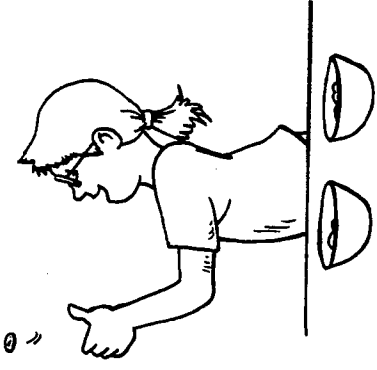
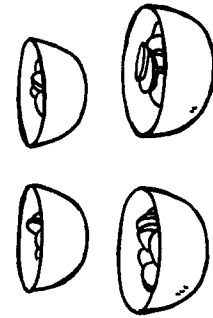
Have your partner cover her eyes.

Spin again. Put that many counters in each bowl.

Have your partner look and say how many counters altogether.

If she's right, she gets that many points.

Play until one of you reaches 50 points.

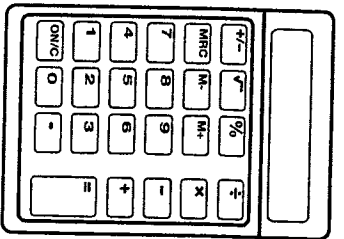


Mystery Number

Pick a number you think can be divided exactly. Enter it into a calculator and show it to a friend.

Now, secretly divide it by a number that makes equal groups.

Show the answer to a friend and ask what you did to get that number.



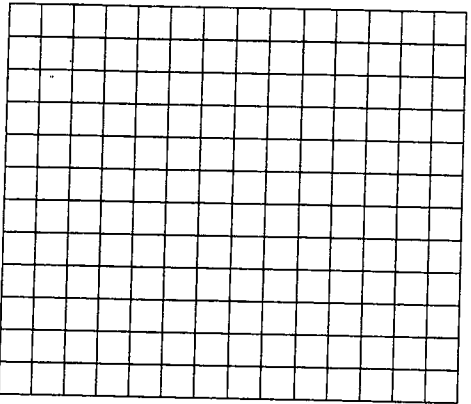
At the Zoo!

Some children were asked how many times they have been to the zoo.

How many children have been to the zoo? _____
 How many children were asked the question? _____

Make a line plot to show these data.

Times to the Zoo	Number of Children
0	
1	
2	
3	
More than 3	



How Much Farther?

You can play this estimation game in the car.

Ask the driver to watch the odometer and tell you when a new kilometre is about to begin. When you think you have driven a kilometre, say "STOP!" The driver watches the odometer and lets you know when you've really travelled 1 km.

Play several times to see how close you can get.

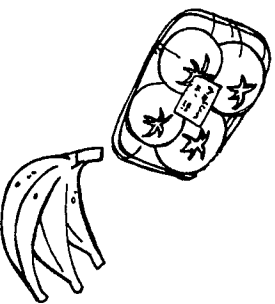
Hmm ... How would your estimate change if you were riding a bike? Walking? Driving on the highway? In town?

At the Grocery Store

It's multiplication time! Search for items that come in groups.

- 3 bananas?
- 4 tomatoes?

- Think about how many you would have if you bought
- 2 packages? How about
- 3 or even 4 packages?



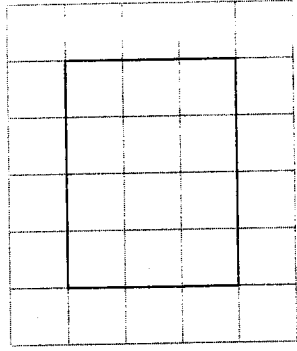
Rectangle Wrangle

The goal here is to draw the last 12-square rectangle. Before you begin, make 5 copies of the grid (right).

On your turn:

On the grid, draw a rectangle that covers 12 squares.

Say the multiplication and division sentence it represents.



So:

$$3 \times 4 = 12$$

$$12 \div 3 = 4$$

Take turns until no more 12-square rectangles can be made. The last person to draw a rectangle wins.

Want to play again?

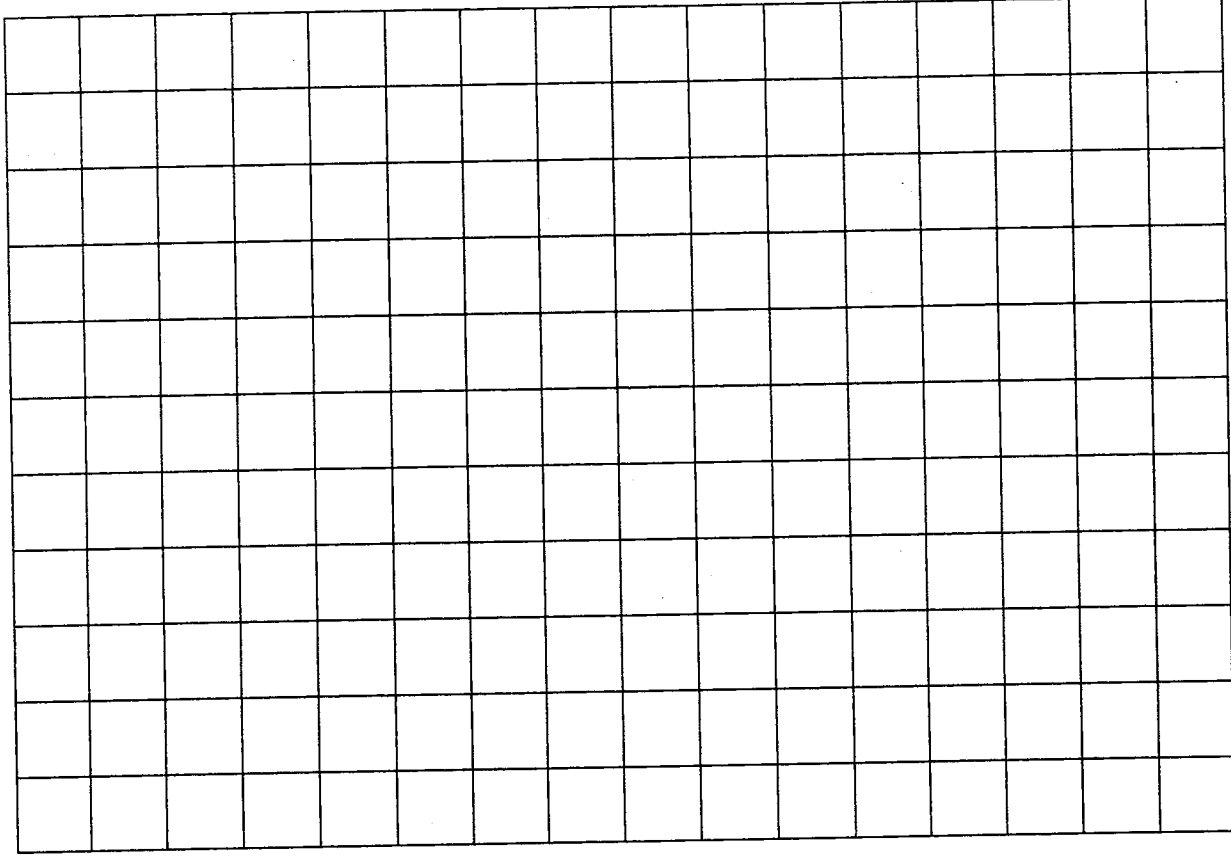
Choose a different size rectangle.

What would a 10-square rectangle look like?

An 8-square rectangle?

Hmm ... do you see a pattern?

Rectangle Wrangle Grid



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