



Her Weight

Joe asked Joyce how much she weighed.

Her reply was, "Twelve kilograms plus three fourths of my weight."

Does Joyce weigh more or less than 50 kilograms?

Band Stripes

In Grant High School the band members are awarded stripes for years of service.

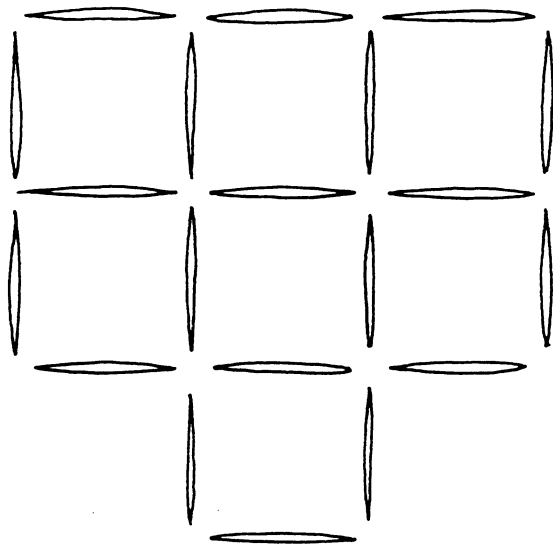
Clarissa, watching the band march by on Jan. 26, tried to count the total stripes. Then she asked the band director if her tally was correct.

"Probably not," said the director, "since the tuba player, a two-striper, and the bass drummer, with no experience, were both away for the holiday. Here's another way to check your figures. There are 79 band members. I have them divided into units for marching. In the first unit, three-elevenths are one-stripers. In the other units, the one-stripers comprise two-sevenths, one-ninth, and one-twenty third respectively. Of those that remain, one-half are two-stripers, and one-half have no stripes at all."

"Oh," said Clarissa, "then my total was correct, if I include the two absent members."

How many stripes in the band?





Twenty Toothpicks

The latest fad at lunch is toothpick puzzles. Someone brings in a new one; anyone who can't solve it during lunch has to clean off the table.

Here's Jud's:

Of these 20 toothpicks, move 7, remove none, and make 4 squares.

Will you have to clean up, or can you solve the puzzle?

Across and Down

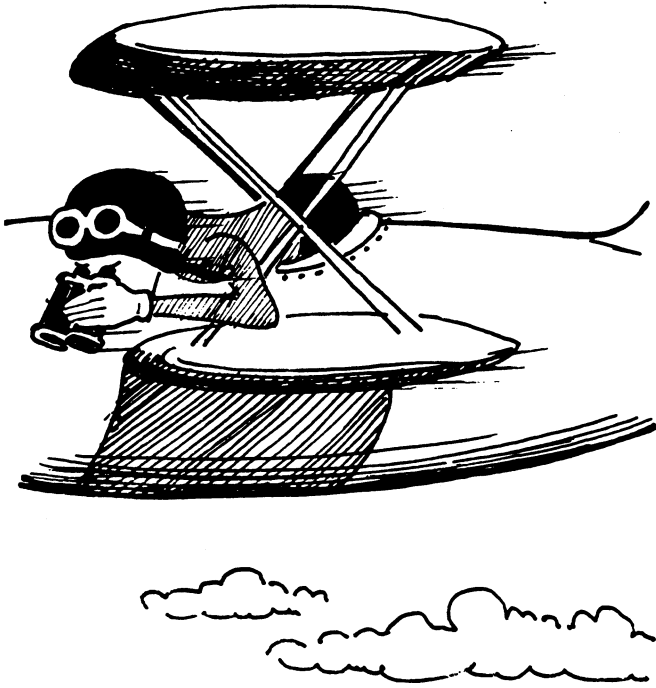
"I wish the maths book had answers in the back," said Elliot. "I never know whether or not my answers are right 'till I get my papers back."

The maths teacher smiled. "I have a problem that you will like. When you complete the statements correctly on the horizontal rows, the statements in the vertical rows will also be correct. The blanks are to be filled with single digit numbers; you may use a number more than once."

Can you do the assignment?

8	X		+		= 65
÷		X		+	
	÷		X		= 10
X		+		+	
	X		X		= 15
=		=		=	
6		15		19	

Flying



Thursday's maths problem was:

Agnes and Angela live 55 km apart. They are meeting somewhere in between the two cities today for a picnic.

They both leave home at 10 a.m. Angela drives toward Agnes at 60 km per hour. Agnes drives toward Angela at 50 km per hour.

Arthur, Angela's jealous boyfriend, wants to be sure that Angela is not meeting someone else, so he also takes off in a plane at 10 a.m. from Angela's, but his speed is 90 km per hour. When he spots Agnes, he turns and flies back to where Angela has driven. He turns again and flies back to Agnes.

Arthur continues back and forth until Agnes and Angela meet.

How far did Arthur fly?

Librarian

Ella has to stay after school to check books for the librarian.

Luke stopped at the library at 2:30 and said, "How's it going?"

"A quarter of the books are done."

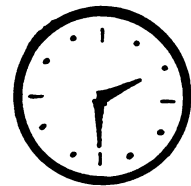
Luke was back at 2:35 and asked the same question.

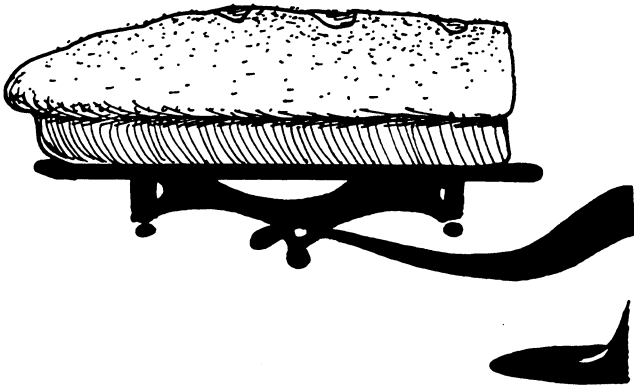
"A third are done."

The librarian then said sharply, "From the information you have, you can determine when the job will be completed. Don't return until then. You are bothering Ella."

Luke doubted that, but figuring out when the books would all be checked occupied him for a time.

When should Luke return?





Weighing the Bread

At the bakery where Mona works, bread is sold by the kilogram.

On a scale, $\frac{1}{3}$ of a loaf of cinnamon bread plus $\frac{1}{3}$ of a kilogram balances with a loaf of cinnamon bread.

How much does one loaf weigh?

Take A Box

Rose, Violet, and Daisy are sharing these boxes.

No one may have boxes with consecutive numbers.

No one may have boxes with the same wrapping.

Although each end up with a different number of boxes, the three total scores are consecutive numbers.

Write the numbers for each girl's boxes in the columns below.

Rose

Violet

Daisy

