STANDARDS
7, 12

FRUITY FRACTIONS

ACTIVITY GOAL

Students change fractions into equivalent decimals to solve a riddle.


FRUITY FRACTIONS

Why does a banana use suntan lotion? This question is a tricky one. So don't slip up! One way to find the answer is by turning these fractions into equivalent decimals.

DIRECTIONS:
- There are two answers after each problem. Circle the letter after the correct answer.
- When you're done, write the circled letters in the blank spaces below. Write them in order from the first problem to the last.

DOING THE MATH:
To change a fraction to a decimal, divide the numerator by the denominator.

Example: 9/5
9/5 = 9 ÷ 5
5 ⟌ 9 = 1.8

A. 6/10	0.6	S	0.1	T
B. 4/9	3.2	L	0.4	O
C. 42/100	4.20	A	0.42	I
D. 13/3	2.6	T	3.3	M
E. 8/3	2.6	W	7.4	E
F. 11/50	0.22	O	2.12	I
G. 5/20	.025	I	0.25	N
H. 7/100	0.07	T	7.10	E
I. 16/3	6.2	O	3.2	P
J. 3/4	5.7	U	0.75	E
K. 14/3	4.6	E	9.3	A
L. 8/1000	0.008	I	.008	R

Why does a banana use suntan lotion?

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YOUR TURN: Write a list of ten fractions. Trade them with a classmate. Now turn those fractions into equivalent decimals.

TEACHING TIPS

- Allow students to use a calculator for this activity. As an introduction, though, ask them to try working out several problems on a sheet of paper. Give the class a list of fractions like the ones below. Then ask them to find each fraction's decimal equivalent.

EXAMPLES:

8/10

10 ⟌ 8.000

(0.8)

6/20

20 ⟌ 6.000

(0.3)

PROBLEMS:

9/30

30 ⟌ 9

(0.3)

5/40

40 ⟌ 5

(0.125)

7/50

50 ⟌ 7

(0.14)

Once students have completed the problems, have them check their answers using a calculator.

As an extension, use money amounts to illustrate decimal and fraction equivalents.

1/4 of a dollar = .25 (25¢)
1/2 of a dollar = 0.5 (50¢)

Now that your students have completed the problems above, ask them to solve the mystery of the banana and the suntan lotion.

Name ____

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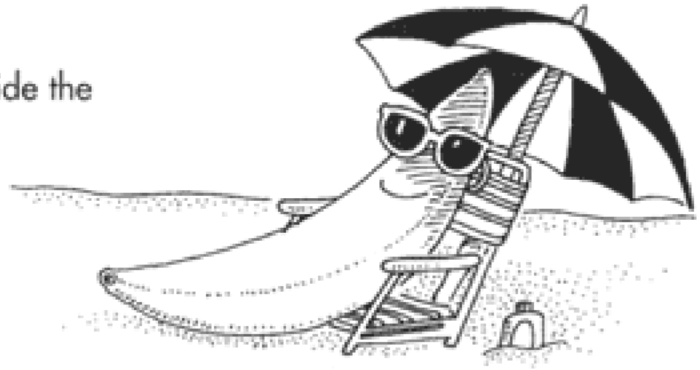

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$$5\overline{)9} = 1.8$$

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__ __   __ __   __ __ __ ' __   __ __ __ __.

IT'S YOUR TURN

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