

NAME: _____

DATE: _____

EXAMINER: _____

DIRECTIONS: Multiply or divide. Write each answer in simplest form.

1. a. $\frac{1}{3} \times \frac{3}{5}$	b. $\frac{4}{3} \div \frac{1}{8}$	c. 5.03×2.74	d. $7.812 \div 2.1$	e. $2\frac{6}{1} \times \frac{8}{3}$	f. 3.22×4.19
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DIRECTIONS: Solve each problem.

2. a. In 4 hours, Luis rode 26 miles on his bicycle. What was his hourly rate?	b. Jenna spent \$6.00 for 5 pounds of grapes. At this rate, how much would she spend for 4 pounds of grapes?
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DIRECTIONS: Use numbers, variables, and symbols to write an algebraic expression for each item. Then evaluate each expression for the given value of the variable.

3. a. five times a number (n) plus three evaluate: (n = 2)	b. one fourth of a number (x) decreased by 8 evaluate: (x = 40)
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DIRECTIONS: Write and solve an equation for each problem.

4. a. Before vacation, Sean completed 11 paintings. By the end of vacation, he had completed a total of 14 paintings. How many paintings did Sean paint during vacation?	b. Kate had \$28. After she bought a book, she had \$18.05. How much did Kate spend on the book?
c. A patio has an area of 120 square feet. The length of the patio is 12 feet. What is its width?	d. It takes 60 cubic feet of sand to fill a sandbox. The length and width of the sandbox are 5 feet and 6 feet. What is the height of the sandbox?

M-7 Sixth-Grade Placement Test

Overview

This assessment focuses on the student's ability to solve sixth-grade mathematics problems.

SKILL

Solves sixth-grade mathematics problems

ASSESSMENT METHOD

Individual or Group Written Response

MATERIALS

- Copy of page S-389
- A pencil
- Scratch paper

SCORING INFORMATION

Record results on page 38 of the student's *Record Book*. Give credit for each correct response. Accuracy of at least 80% (12/14) indicates mastery of solving sixth-grade mathematics problems.

OBJECTIVE FOR WRITING IEPs

By ____ (date) ____, when given sixth-grade mathematics problems, ____ (student's name) ____ will solve the problems with at least 80% accuracy.

Directions for Assessment: Written Response

Give the student a copy of page S-389, a pencil, and scratch paper. Point out the DIRECTIONS to the student. If necessary, give help understanding the DIRECTIONS.

Say: Solve as many problems as you can. Keep working until you are finished or I tell you to stop.

SKILL ANALYSIS AND ANSWERS FOR PAGE S-389

- Multiplies and divides fractions and decimals**
a. $\frac{1}{5}$ b. 6 c. 13.7822 d. 3.72 e. $\frac{13}{16}$ f. 13.4918
- Solves ratio and rate problems**
a. $6\frac{1}{2}$ (or 6.5) miles per hour b. \$4.80
- Writes and evaluates expressions**
a. $5n + 3$; 13 b. $\frac{x}{4} - 8$ or $\frac{1}{4}x - 8$; 2
- Writes and solves equations/Solves volume and area problems**
a. $11 + x = 14$; $x = 3$
b. $28 - x = 18.05$; $x = \$9.95$
c. $12x = 120$; $x = 10$ ft
d. $30x = 60$; $x = 2$ ft