

NAME: _____

DATE: _____

EXAMINER: _____

DIRECTIONS: Solve each problem.

1. a. What is the sale price of a \$45 item with a 25% discount?	b. The width of rectangle A is 2 feet, and the length is 6 feet. The width of a similar rectangle is 3 feet. What is its length?	c. What is the total cost of a \$25 meal with a 15% tip added?
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DIRECTIONS: Write the answer to each problem.

2. a. $\begin{array}{r} -8 \\ +4 \\ \hline \end{array}$	b. $\begin{array}{r} - \\ -6 \\ 7 \\ \hline \end{array}$	c. $\begin{array}{r} - \\ -9 \\ \times 3 \\ \hline \end{array}$	d. $-48 \div 6$	e. $-19 + -11$	f. $\begin{array}{r} - \\ -15 \\ -9 \\ \hline \end{array}$	g. $\begin{array}{r} -7 \\ \times -7 \\ \hline \end{array}$	h. $72 \div -8$
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DIRECTIONS: Solve each equation.

3. a. $4x = 16$	b. $\frac{3}{4}t = 12$	c. $2r + 5 = 31$	d. $4n - 7 = 21$	e. $\frac{3}{a} + 2 = 6$	f. $\frac{7}{4} - 8 = 2$
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DIRECTIONS: Solve each problem.

4. a. What are the circumference and the area of a circle that has a radius of 3 inches?	b. The base of a cylinder has a radius of 2 feet. The height of the cylinder is 5 feet. What is its surface area and volume?
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c. What is the volume of this figure?



M-8 Seventh-Grade Placement Test

Overview

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

SKILL

Solves seventh-grade mathematics problems

ASSESSMENT METHOD

Individual or Group Written Response

MATERIALS

- Copy of page S-390
- A pencil
- Scratch paper

SCORING INFORMATION

Record results on page 39 of the student's *Record Book*. Give credit for each correct response. Accuracy of at least 80% (16/20) indicates mastery of solving seventh-grade mathematics problems.

OBJECTIVE FOR WRITING IEPs

By ____ (date) ____, when given seventh-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-390, a pencil, and scratch paper. Point out the DIRECTIONS to the student. If necessary, give help understanding the DIRECTIONS.

Say: Complete 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-390

1. Uses proportional reasoning to solve problems

- a. \$33.75 b. 9 ft c. \$28.75

2. Computes with integers

- a. -4 b. 13 c. -27 d. -8 e. -30 f. -24 g. 49 h. -9

3. Solves linear equations

- a. $x = 4$ b. $t = 16$ c. $r = 13$ d. $n = 7$ e. $a = 12$ f. $y = 40$

4. Solves measurement problems

- a. $C = 18.84$ in.; $A = 28.26$ in.²
b. surface area = 87.92 ft², volume = 62.8 in.³
c. 150 cm³