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M-8 Seventh-Grade Placement Test

:3AMINER:

DIRECTIONS: Solve each problem.

c. What is the total cost of a \$25 meal with a 15% tip added?

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?

1. a. What is the sale price of a \$45 item with a 25% discount?

DIRECTIONS: Write the answer to each problem.

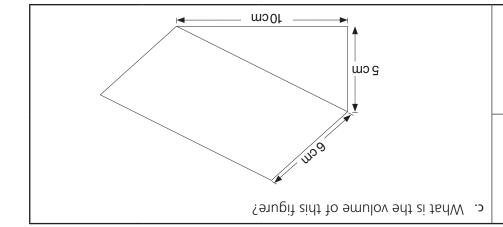
8- ÷ 27 .r	√و √- ×	6 − 21− .1	-+6 9	9 ÷ 84⁻ .b	c9 × 3	7 .d <u>∂</u> –	86 .2 <u>4 +</u>

DIRECTIONS: Solve each equation.

3. a.
$$b. \qquad c. \qquad d. \qquad e. \\ \lambda X = 16 \qquad b. \qquad \lambda Y = 12 \qquad d. \qquad \Delta Y = 21 \qquad \Delta Y =$$

DIRECTIONS: Solve each problem.

that has a radius of 3 inches?



4. a. What are the circumference and the area of a circle

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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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 <u>(date)</u>, 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

2. Computes with integers

a. ⁻⁴ b. 13 c. ⁻27 d. ⁻⁸ e. ⁻30 f. ⁻24 g. 49

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.; $A = 28.26 \text{ in.}^2$

b. surface area = 87.92 ft^2 , volume = 62.8 in.^3

c. 150 cm³

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