✿ TRIVIA TEST ✿

1. What Is the Best Way to Paint a Rabbit?
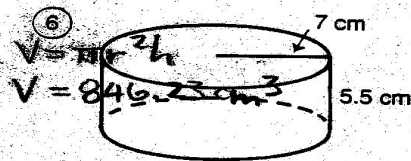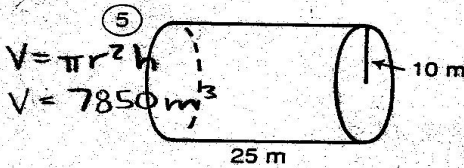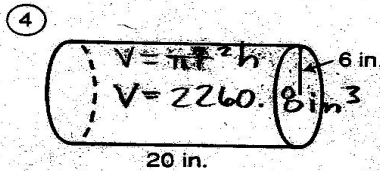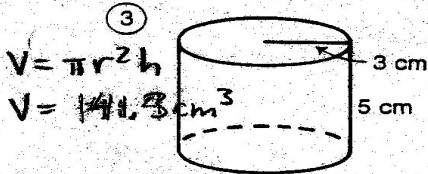
$\underset{4}{W}\ \underset{7}{I}\ \underset{2}{T}\ \underset{8}{H}\ \underset{8}{H}\ \underset{3}{A}\ \underset{11}{R}\ \underset{5}{E}\ \underset{10}{S}\ \underset{1}{P}\ \underset{11}{R}\ \underset{3}{A}\ \underset{6}{Y}$

2. What Candy Do Kids Eat on the Playground?

$\underset{11}{R}\ \underset{5}{E}\ \underset{9}{C}\ \underset{5}{E}\ \underset{10}{S}\ \underset{10}{S}\ \underset{1}{P}\ \underset{7}{I}\ \underset{5}{E}\ \underset{9}{C}\ \underset{5}{E}\ \underset{10}{S}$

Do each exercise and find your answer in the answer column. Write the letter of the answer above the exercise number each time it appears in the code. Use 3.14 for π.

Answers

M	814.13 cm³
C	565.2 m³
N	381.36 mL
A	141.3 cm³
B	14.8 m³
I	602.88 in.³
P	675 cm³
U	7,490 m³
H	1,177.5 mm³
R	452.16 mL
W	2,260.8 in.³
L	382.8 cm³
T	15.4 m³
Y	846.23 cm³
O	717.8 in.³
S	376.8 cm³
G	1,224.5 mm³
E	7,850 m³
D	614.2 m³

I. Find the volume of each cylinder.

(1) $V = A_{base} \times h$
$V = 675\ cm^3$
9 cm, B = 75 cm²

(2) $V = A_{base} \times h$
$V = 15.4\ m^3$
3.5 m, B = 4.4 m²

(3) $V = \pi r^2 h$
$V = 141.3\ cm^3$
3 cm, 5 cm

(4) $V = \pi r^2 h$
$V = 2260.8\ in^3$
6 in., 20 in.

(5) $V = \pi r^2 h$
$V = 7850\ m^3$
10 m, 25 m

(6) $V = \pi r^2 h$
$V = 846.23\ cm^3$
7 cm, 5.5 cm
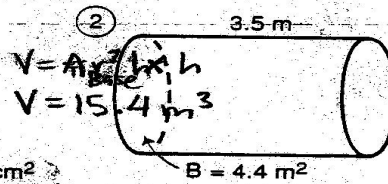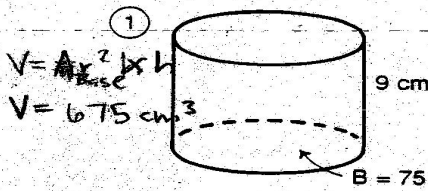
(7) r = 8 in. $V = \pi r^2 h$
h = 3 in. $V = 602.88\ in^3$

(8) r = 2.5 mm $V = \pi r^2 h$
h = 60 mm $V = 1177.5\ mm^3$

(9) d = 10 m $V = \pi r^2 h$
h = 7.2 m $V = 565.2\ m^3$

II. Solve.

(10) Shawn is making a candle using a cylindrical mold with a radius of 2 cm and a height of 30 cm. How many cubic centimeters of wax are needed for the candle? $V = \pi r^2 h$
$V = 376.8\ cm^3$

(11) A mug in the shape of a cylinder has a base with a radius of 4 cm. How many milliliters of liquid does it hold if filled to a height of 9 cm? (Hint: 1 cm³ holds 1 mL.) $V = \pi r^2 h$
$V = 452.16\ mL$

TOPIC 5-g: Volume of Cylinders   **D-70**