

☆ TRIVIA TEST ☆

1. What is the Best Way to Paint a Rabbit?

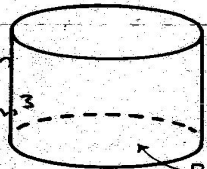
W I T H H A R E S P R A Y
4 7 2 8 8 3 11 5 10 1 11 3 6

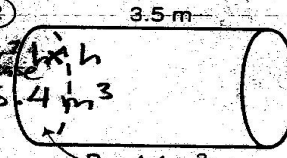
2. What Candy Do Kids Eat on the Playground?

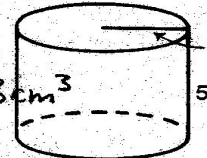
R E C E S S P I E C E S
11 5 9 5 10 10 1 7 5 9 5 10

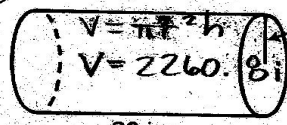
Do each exercise and find your answer in the answer column. Write the letter of the answer above the exercise number each time it appears in the code. Use 3.14 for π .

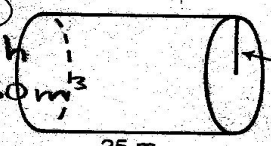
1. Find the volume of each cylinder.

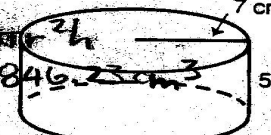
①  $V = A_{\text{base}} \times h$
 $V = 675 \text{ cm}^3$

②  $V = A_{\text{base}} \times h$
 $V = 15.4 \text{ m}^3$

③  $V = \pi r^2 h$
 $V = 141.3 \text{ cm}^3$

④  $V = \pi r^2 h$
 $V = 2260.8 \text{ in}^3$

⑤  $V = \pi r^2 h$
 $V = 7850 \text{ m}^3$

⑥  $V = \pi r^2 h$
 $V = 846.23 \text{ cm}^3$

⑦ $r = 8 \text{ in.}$ $h = 3 \text{ in.}$ $V = \pi r^2 h$ $V = 602.88 \text{ in}^3$

⑧ $r = 2.5 \text{ mm}$ $h = 60 \text{ mm}$ $V = \pi r^2 h$ $V = 1177.5 \text{ mm}^3$

⑨ $d = 10 \text{ m}$ $h = 7.2 \text{ m}$ $V = \pi r^2 h$ $V = 565.2 \text{ m}^3$

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?
 $V = \pi r^2 h$
 $V = 376.8 \text{ cm}^3$

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 cm^3 holds 1 mL.)
 $V = \pi r^2 h$
 $V = 452.16 \text{ mL}$

Answers

- Ⓜ 814.13 cm^3
- Ⓒ ~~565.2 m^3~~
- Ⓝ 381.36 mL
- Ⓐ ~~141.3 cm^3~~
- Ⓑ 14.8 m^3
- Ⓘ ~~602.88 in^3~~
- Ⓟ ~~675 cm^3~~
- Ⓤ 7,490 m^3
- ⓗ ~~1,177.5 mm^3~~
- Ⓡ ~~452.16 mL~~
- Ⓦ ~~2,260.8 in^3~~
- Ⓛ 382.8 cm^3
- Ⓣ ~~15.4 m^3~~
- Ⓨ ~~846.23 cm^3~~
- Ⓞ 717.8 in^3
- Ⓢ ~~376.8 cm^3~~
- ⓖ 1,224.5 mm^3
- Ⓔ ~~7,850 m^3~~
- Ⓓ 614.2 m^3