Name: _____

Date: _____

MrF

SHOW WORK!

Get used to being systematic! Show units
Do Puzzle to see if answer is correct!
Big '**B**' is the **B**ase Area of the object

☆ TRIVIA TEST ☆

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

$$\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overset{P}{\overline{}}\;\overline{}\;\overline{}\;\overline{}$$
   4   7   2   8   8   3   11   5   10   1   11   3   6

2. What Candy Do Kids Eat
   on the Playground?

$$\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overline{}\;\overset{P}{\overline{}}\;\overline{}\;\overline{}\;\overline{}\;\overline{}$$
   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
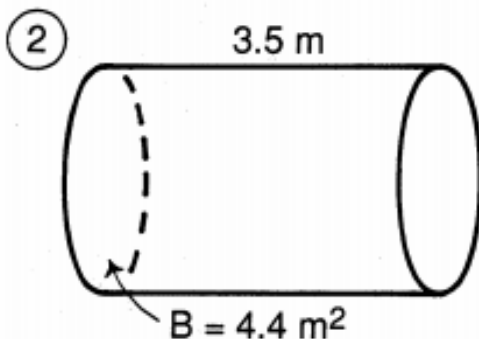each time it appears in the code. Use 3.14 for π.

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)

9 cm
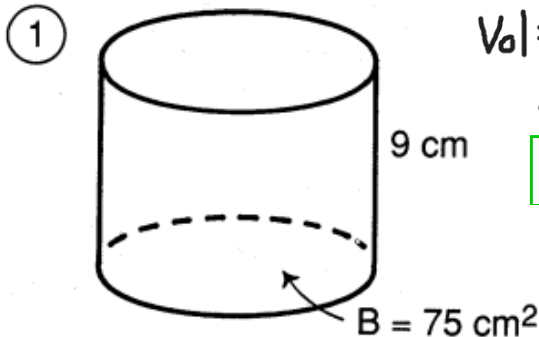
B = 75 cm²

$Vol = Base\ Area \cdot h_{object}$

$= 75 cm^2 \cdot 9\ cm$

$= 675 cm^3$

(2) 3.5 m

B = 4.4 m²

'Base' is not necessarily on the bottom!

③

— 3 cm

5 cm
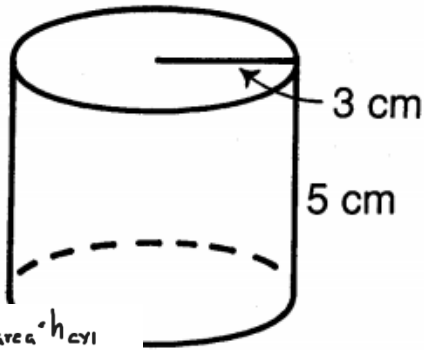
$Vol_{cyl} = Base_{area} \cdot h_{cyl}$

$= (\pi r^2) \cdot h$

$= 3.14 \cdot (3cm)^2 \cdot 5cm$
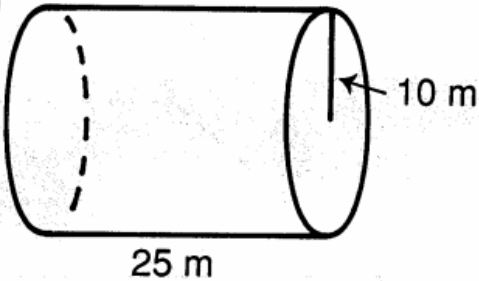
$= \underline{\quad\quad} cm^3$
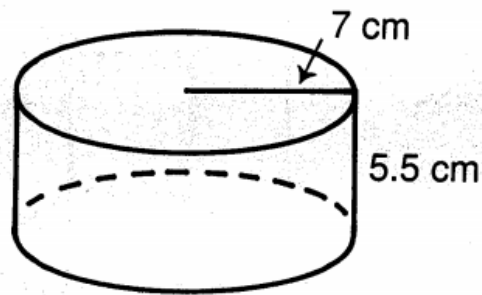
*Need to calculate the **circular** Base Area yourself!*

④

— 6 in.

20 in.
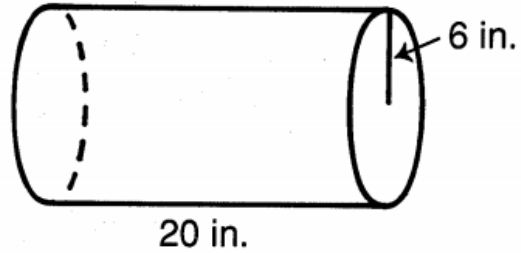
Need to calculate the Base Area yourself! The base is not necessarily the bottom!

⑤

← 10 m

25 m

⑥

7 cm

5.5 cm

Did you know?
One millilitre is defined
as one cubic centimetre!
$1 ml \equiv 1 cm^3$

⑦ $r = 8$ in.
$h = 3$ in.

⑧ $r = 2.5$ mm
$h = 60$ mm

⑨ $d = 10$ m
$h = 7.2$ m

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?

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.)