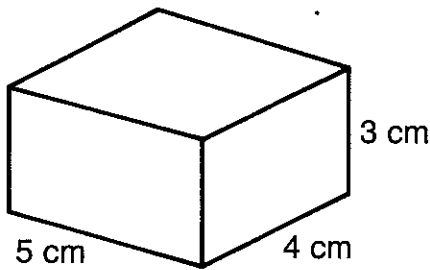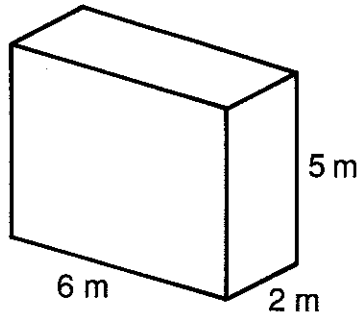# What Happened to Zelda After She Swallowed Two Nickels, Three Dimes, and a Quarter?

Give the SURFACE AREA of each prism. Find your answer in the answer columns and notice the two letters next to it. Write these letters in the spaces over the exercise number at the bottom of the page.
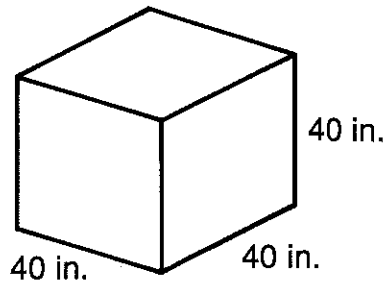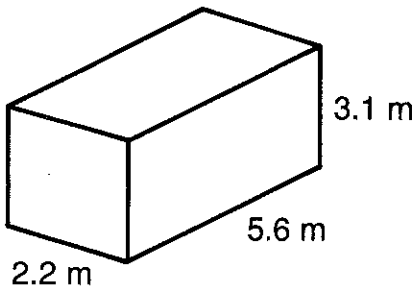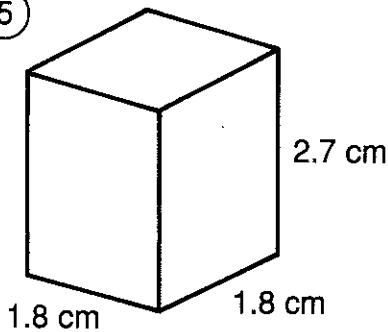
① 3 cm, 5 cm, 4 cm

② 5 m, 6 m, 2 m

③ 40 in., 40 in., 40 in.

④ 3.1 m, 5.6 m, 2.2 m

⑤ 2.7 cm, 1.8 cm, 1.8 cm

⑥ 6.3 m, 9.4 m, 5.8 m
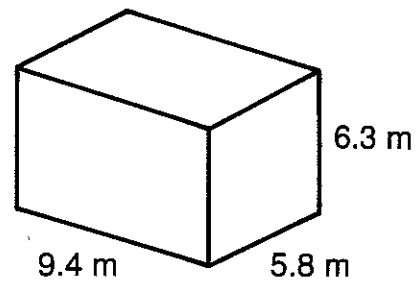
⑦ A rectangular storage box is 12 in. wide, 15 in. long, and 9 in. high. How many square inches of colored paper are needed to cover the surface of the box?

⑧ A teacher made a pair of foam dice to use in math games. Each cube measured 10 in. on a side. How many square inches of fabric were needed to cover the two cubes?

Answers

(TH) 73 m²			(OB) 8,560 in.²
(AL) 23.12 cm²	(AS) 94 cm²	(ER) 318.26 m²	(NO) 25.92 cm²
(EW) 846 in.²	(IT) 86 m²	(AN) 9,600 in.²	(PL) 1,050 in.²
(ER) 104 m²	(CH) 1,200 in.²	(GE) 300.56 m²	(TR) 85 cm²

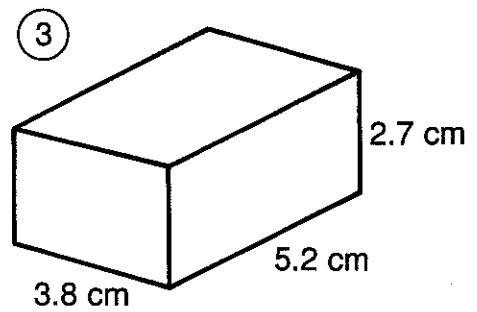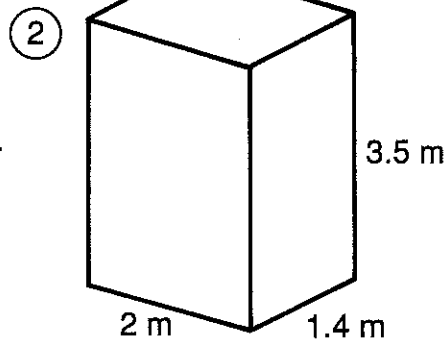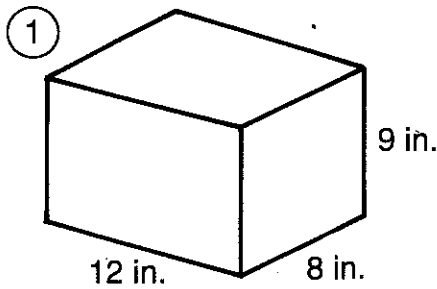|							
4	2	7	1	5	8	3	6

D-64

What Movie Is about a Kid Who Ran Away from Home with His Bicycle?

Find each answer in the answer columns and notice the two letters next to it. Write these letters in the spaces over the exercise number at the bottom of the page.

I. Find the volume of each rectangular prism.

① 9 in.
12 in. 8 in.

② 3.5 m
2 m 1.4 m

③ 2.7 cm
3.8 cm 5.2 cm

II. Solve.

④ A classroom is 26 ft wide, 32 ft long, and 9 ft high. What is the volume of the room in cubic feet?

⑤ A swimming pool is 20.6 m long, 8.5 m wide, and has an average water depth of 1.7 m. Find the volume of water needed to fill the pool.

⑥ If all the gold that has been produced in the last 500 years could be melted to form a single cube, each side would measure about 16 m. How many cubic meters of gold is this?

⑦ A refrigerator is 3 ft wide, 2.5 ft deep, and 6 ft high. The walls and other parts of the refrigerator take up 20 ft³. How many cubic feet are left for food?

⑧ Krispy Kritters Cereal used to come in a box with a volume of 2,850 cm³. However, The Krispy Kritters Co. designed a new larger box 22.5 cm wide, 6.2 cm deep, and 30 cm high. How many more cubic centimeters will the new box hold than the old box?

⑨ An aquarium weighs 22.5 lb when empty. The aquarium is 30 in. long, 14 in. wide, and is filled with water to a depth of 18 in. Water weighs 0.036 pound per cubic inch. How much does the aquarium weigh when it is full of water?

··· ANSWERS ···

(RU) 985 cm³   (ST) 6,118 ft³   (WI) 4,096 m³   (LA) 314.56 lb   (TH) 864 in.³

(NN) 297.67 m³   (CH) 53.352 cm³   (IN) 23.5 ft³   (GO) 1,335 cm³   (LE) 311.27 m³

(WI) 294.66 lb   (ES) 25 ft³   (NE) 9.8 m³   (PA) 3,986 m³   (TH) 7,488 ft³

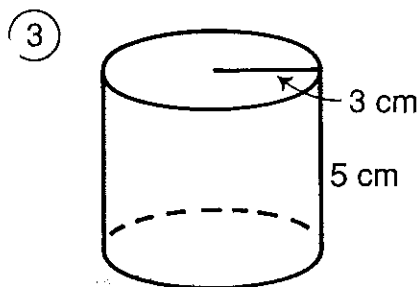|								
8	2	6	1	4	7	3	9	5

✧ TRIVIA TEST ✧

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

$\overline{}_{4}\ \overline{}_{7}\ \overline{}_{2}\ \overline{}_{8}\ \overline{}_{8}\ \overline{}_{3}\ \overline{}_{11}\ \overline{}_{5}\ \overline{}_{10}\ \overline{}_{1}\ \overline{}_{11}\ \overline{}_{3}\ \overline{}_{6}$

2. What Candy Do Kids Eat on the Playground?

$\overline{}_{11}\ \overline{}_{5}\ \overline{}_{9}\ \overline{}_{5}\ \overline{}_{10}\ \overline{}_{10}\ \overline{}_{1}\ \overline{}_{7}\ \overline{}_{5}\ \overline{}_{9}\ \overline{}_{5}\ \overline{}_{10}$

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

② 3.5 m, B = 4.4 m²

③ 3 cm, 5 cm

④ 6 in., 20 in.

⑤ 10 m, 25 m

⑥ 7 cm, 5.5 cm
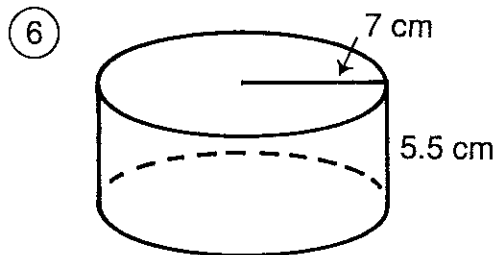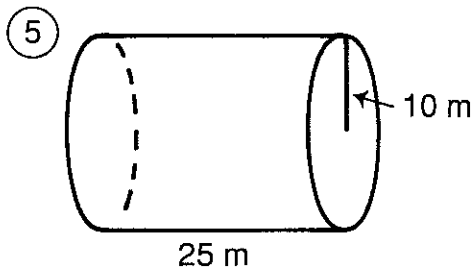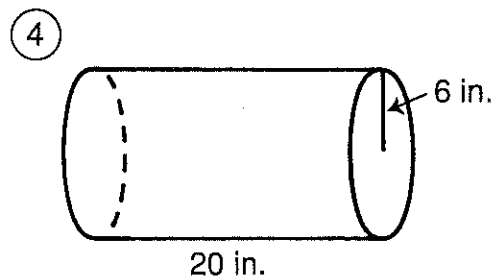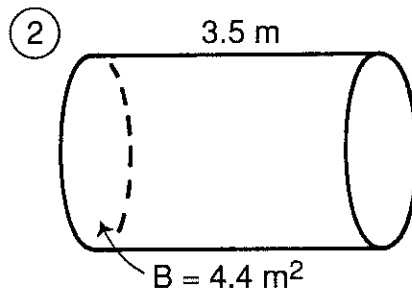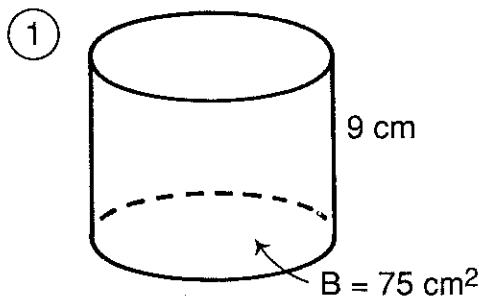
⑦ r = 8 in.
   h = 3 in.

⑧ r = 2.5 mm
   h = 60 mm
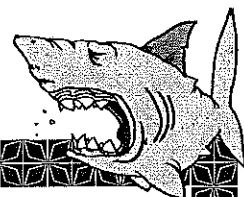
⑨ d = 10 m
   h = 7.2 m

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 cm³ holds 1 mL.)

Why Don't Sharks Eat Clowns?

Find the volume of the prism.

1.

7.5 ft
6.0 ft
3.8 ft

2.

5.3 m
B = 22.7 m²

3.

12 in.
4 in.
15 in.

4.

80 cm
45 cm
72 cm

5.

5 in.
10 in.
4 in.
9 in.

6.

3 ft
3 ft
3 ft

7.

8.5 cm
B = 6.6 cm²
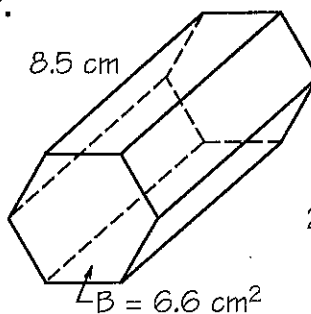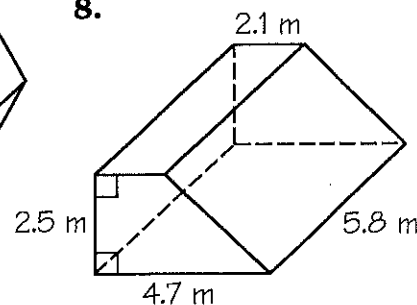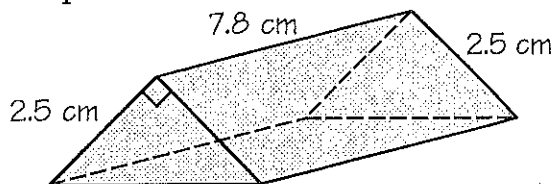
8.

2.1 m
2.5 m
5.8 m
4.7 m
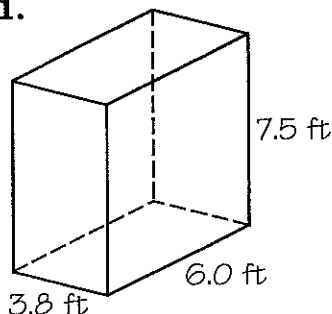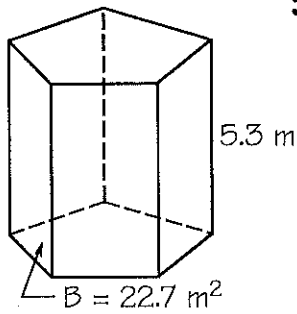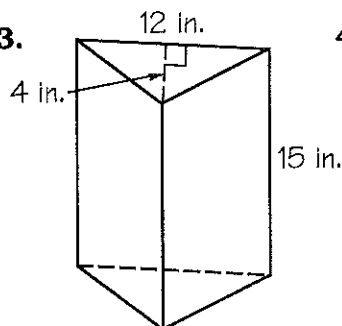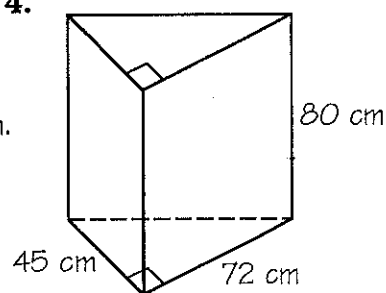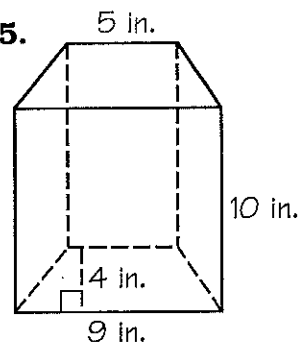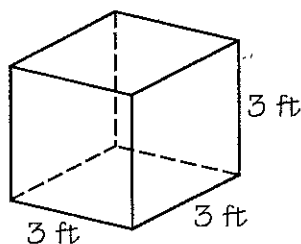
Solve.

9. Bob's bathtub is 5.0 ft long and 2.2 ft wide. Bob fills the tub to a depth of 0.8 ft. A cubic foot of water is about 7.48 gallons. How many gallons are used to fill the tub?

10. An unsharpened pencil is in the shape of a hexagonal prism with base area of 54 mm² and length of 20 cm. Find the volume in cubic millimeters. (1 cm = 10 mm)

11. The optical prism shown below is made of glass having a density of 4.3 grams per cubic centimeter. Find the mass of the prism.

7.8 cm
2.5 cm
2.5 cm

MA	BO	TH	AT	PR	EY
280 in.³	10,800 mm³	52.5 m³	56.1 cm³	360 in.³	183 ft³
TA	**KE**	**PE**	**ST**	**OP**	**EF**
11,300 mm³	104.8 g	171 ft³	107.5 g	65.8 gal	132,400 cm³
ST	**UN**	**DO**	**BO**	**NY**	**IT**
27 ft³	325 in.³	129,600 cm³	49.3 m³	72.4 gal	120.3 m³