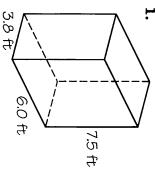
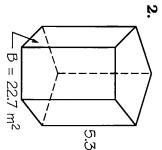
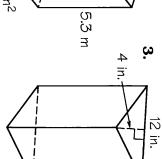
10n't 子の Clowns?

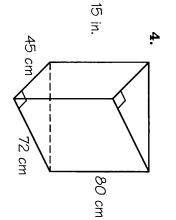
Cross out the letters above each correct answer (some answers are rounded). When you finish, write the remaining letters in the spaces at the bottom of the page.

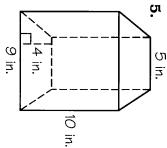
Find the volume of the prism.



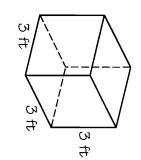


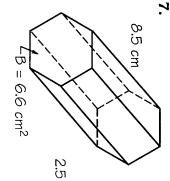


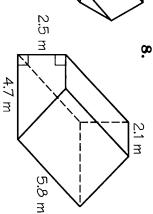




9

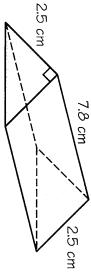






Solve.

- 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.



8					
27 ft ³	ST	$11.300 \mathrm{mm}^3$	TA	280 in.^{3}	MA
325 in.^3	UN	104.8 g	KE	$10,800 \text{ mm}^3$	во
$129,600~{ m cm}^3$	DO	171 ft ³	PE	$52.5~\mathrm{m}^3$	HT
49.3 m^3	во	107.5 g	TS	$56.1~\mathrm{cm}^3$	AT
72.4 gal	AN	65.8 gal	ЧO	360 in.^3	PR
$120.3~\mathrm{m}^3$	TI	$132,400 \text{ cm}^3$	EF	$183~\mathrm{ft}^3$	EY

What Kind of Music Do Astronauts Like?



Use 3.14 for π . Cross out the letter next to each correct answer (some answers are rounded). When you finish, the answer to the title question will remain.

 \mathbf{T} 452. .2 mL

R S $3.4~\mathrm{m}^3$ 2826 ft³

 \mathbf{E} 857 in.3

B 2

D 516. 7 cm^3

N 25.8 oz

Ū 475.3 mL

395.6

 \mathbf{F}

g

 336 cm^3

O

U 27.0 oz

P 388.5g

0 $4.0~\mathrm{m}^3$

T

 8478 cm^3

E 2950 ft³

G 5086.8 in

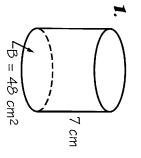
N 7955 cm^3

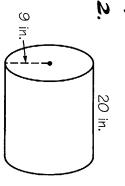
0

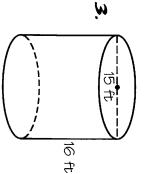
S 942 in.3



Find the volume of the cylinder.







Find the volume of the cylinder given the radius (r) or diameter (d) and height (h).

4.
$$r = 10$$
 in. $h = 3$ in.

5.
$$r = 4.4 \text{ cm}$$

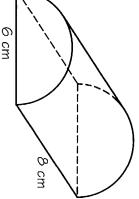
h = 8.5 cm

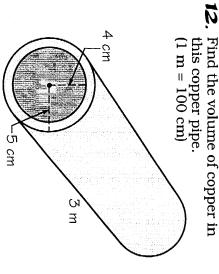
G.
$$d = 2.6 \text{ m}$$

 $h = 0.75 \text{ m}$

Solve

- N it hold if filled to a height of 9 cm. How many milliliters of liquid does A mug in the shape of a cylinder (1 cm³ holds 1 mL) has a base with a radius of 4 cm.
- Ġ peanut butter. How many ounces will fit in the jar? One cubic inch holds 0.45 oz of of 5.9 in. and diameter of 3.6 in. A peanut butter jar has a height
- Ö Jo was comparing two cylinders that both had a radius of 5 cm. The first had a height of 10 cm. volume of the larger cylinder? How many times greater was the and the other a height of 20 cm.
- 10. Bo was comparing two cylinders that both had a height of 5 cm. volume of the larger cylinder? and the other a radius of 20 cm. The first had a radius of 10 cm, How many times greater was the
- 11. The paperweight shown below is weigh? How much does the paperweight made of glass with a density of 3.5 grams per cubic centimeter.



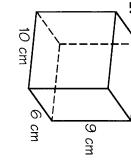


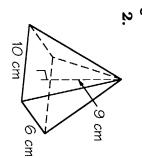
What Do You Call a Monster With a Car On His Head?

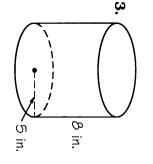
210 cm ³ 210 cm ³ 174.5 mL 712 in. ³ 628 in. ³ 706.5 cm ³ 706.5 cm ³ 408.9 g 209.3 in. ³ 166.7 mL 180 cm ³ 7.2 m ³ 7.2 m ³ 7.2 m ³ 98 cm ³	7777					
209.3 in.3 5 cm ³ 5 cm ³ 3150 m ³ 47.2 ft ³ \$2.00 m ³ 7.2 m ³ 2700 m ³						
209.3 in.3 5 cm ³ 5 cm ³ 3150 m ³ 47.2 ft ³ \$2.00 m ³ 7.2 m ³ 2700 m ³	688.3 cm ³		174.5		mL	210
209.3 in.3 5 cm ³ 5 cm ³ 3150 m ³ 47.2 ft ³ \$2.00 m ³ 7.2 m ³ 2700 m ³		\$1.		712) cm³
209.3 in.3 5 cm ³ 5 cm ³ 3150 m ³ 47.2 ft ³ \$2.00 m ³ 7.2 m ³ 2700 m ³		00		628	in.³	
209.3 in.3 5 cm 3 166.7 mL 35.1 ft 3 \$2.00 7.2 m 3 2700 m 3					,	
209.3 in.3 5 cm ³ 5 cm ³ 3150 m ³ 47.2 ft ³ \$2.00 m ³ 7.2 m ³ 2700 m ³			408	$540~\mathrm{cm}^3$		
209.3 in. 3		9 m³	3.9 g		706.5	392.5
\$2.00 ft 150 m2 7.2 m ³ 2700 m ³		209	9.3 in	3	cm ³	œ
\$2.00 ft 150 m2 7.2 m ³ 2700 m ³	47.2 ft ³					
\$2.00 ft 150 m2 7.2 m ³ 2700 m ³		$180~\mathrm{cm}^3$	166.7 mL		35.1 ft	
\$2.00 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						315
I day ity, o			\$2	.00	3	0 m³
I day ity, o						
\$1.50 98 cm ³		7.2 r	n ³	2700) m ³	
\$1.50 98 cm ³		$\overline{/}$		180		
83 in. ³ \$1.50					3	
0 1.3	98 c		\$1.5	, 83 ir		
	m_3		0 /	1.3		

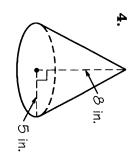
Shade in the area containing each correct answer (some answers are rounded). Use 3.14 for π .

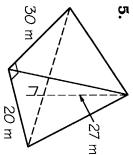
Find the volume of each figure.

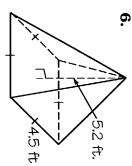


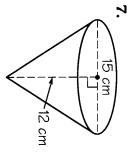


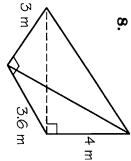






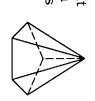




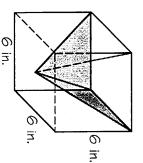


Solve.

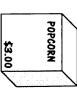
- 9. An ice cream cone has a diameter of 7 cm and a height of 13 cm. How many milliliters of melted ice cream can it hold? (1 cm³ holds 1 mL)
- 10. The steel machine part at the right has a base area of 22.5 cm² and a height of 5.8 cm. The steel weighs 9.4 grams per cubic centimeter. How much does the part weigh?



snugly inside a 6-in. cube as shown. What is the volume of the shaded region (inside the cube but outside the pyramid)?



12. Two popcorn boxes are shown below. The boxes have congruent openings and equal heights. If the larger box of popcorn sells for \$3.00, what is a fair price for the smaller box?





Why Are Mathematicians bike Airlines?

Choose the correct answer for each exercise and circle the letter next to it (most answers are rounded). Write the upper case letter in the box containing the lower case letter. Use 3.14 for π .

Find the volume of each ball.

" | 1.5 in.



ÿ ı 12 cm



ယ a H 2.28 in



 $\mathbf{k} \cdot \mathbf{A}$

 5274.8 cm^3

answers

N • III 28,900 gal

p•S 332.9 in.^3

0 • T $113,040 \text{ cm}^3$

n • 0 7234.6 cm^3

g•V 14.8 lb

6

4.3

4.

a

2

cm

Ģ

Q

11

1.68 in.

d • **Y** 103.0 in.^3

i • 0 $678,240 \text{ cm}^3$

f•U 4846.6 cm^3

g. S 904,320 cm³

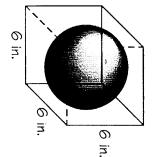
d•R

694 mL

h • E 31,400 gal

Solve.

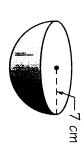
- .7 A spherical water storage tank has a radius of 10 ft. A cubic foot of water is about 7.5 gallons. How many gallons of water will the tank hold?
- 9 bowling ball. 0.05 lb/in.³ Find the weight of the A bowling ball has a diameter of 8.4 It is made of plastic that weighs
- 10. of the region shown. What 6-in. cube as A sphere fits but outside the inside the cube is the volume snugly inside a



œ hold? How many milliliters of soup will this hemispherical bow (1 cm³ holds 1 mL)

c • E

 14.1 in.^3

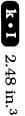


- 11. radius and the other with a spheres, one with a 30-cm Rimshot was comparing two 60-cm radius.
- Find the volume of the smaller sphere.
- Find the volume of the larger sphere.
- ċ How many times greater larger sphere? is the volume of the

b • **R** 298.5 in.^3



O



j•F 105.2 in.^3

TI CIT 15.5 lb

a•T 6.2 in.^3

·P ∞

p • D 4.75 in.^3

H • q 718 mL

a • C 13.5 in.^3

