Math Measurement Geometry and Algebra 7_6

Student Name:_____   Date:_____

1.

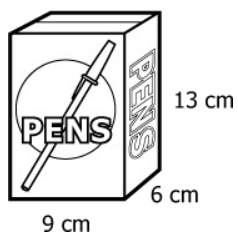Three prisms have the same base area.

Which prism has the greatest volume?

A. ⬜ 3.5 in.

B. ⬜ 4 in.

C. ⬜ 2 in.

2.

Volume = L × W × H

20 cm

7 cm

7 cm

V = ___

A. 20 × 7 + 7

B. 20 + 7 + 7

C. 20 × 7 × 7

3.

Volume = L × W × H

13 cm

PENS

6 cm

9 cm

$V =$ ___ cm^3

A. 1109

B. 702

C. 693
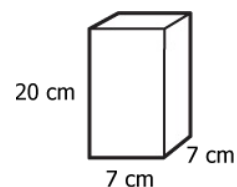
4.

Volume = Area of base × Height ÷ 3

8″

12″
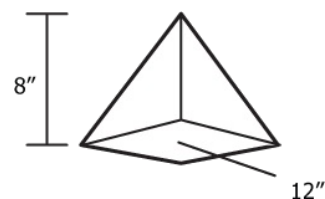
Area of base = 12 $in.^2$

Volume = ___ $in.^3$

A. 52

B. 42

C. 32

5.

SA = (2 × Area of Base) + (2πr × h)

r = 3 in.

height = 6 in.

Area of Base = 9π sq. in.

SA = ___

A. 54π sq. in.
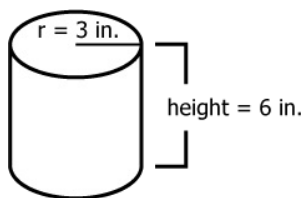
B. 36π sq. in.

C. 48 sq. in.

6.

Volume = L × W × H

8 cm

2 cm

x
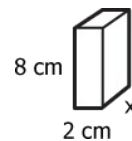
V = 80 cm³

x = ___ cm

A. 4

B. 6

C. 5

7.

Circumference = 2πr

r = 1 in.
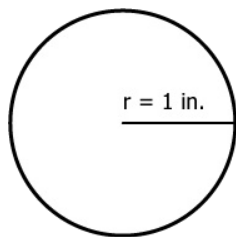
Which is greatest?

A. π

B. r

C. Circumference

8.

Volume = $\frac{1}{3}$(Area of Base × H)

A   B   C

5 cm²   4 cm²   7 cm²

11 cm   14 cm   14 cm
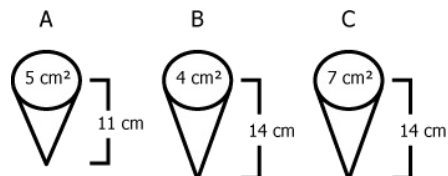
Which cone has volume
of *about* 18.7 cm³?

A. A

B. B

C. C

9.

Volume = L × W × H

9 cm

6 cm

x
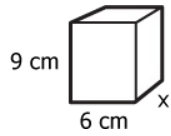
V = 108 cm^3

x = ___ cm

A. 2

B. 4

C. 3

10.

Volume = Area of base × Height

8"

7"

Area of base = 12.25π in.^{2}

Volume = ___ in.^{3}

A. 98π

B. 45π

C. 40π
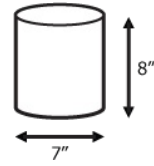
11.

Circumference = 2 × π × radius

radius of a circle = 10"

Circumference is *about* ___ .

A. 16"

B. 32"

C. 62"

12.

Area = πr^2

10 m

A = ___ m^2

A. 10π^2

B. 20π

C. 100π
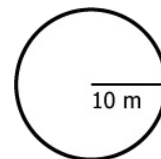
13.

Surface Area = 2(lw + lh + wh)

5 m

3 m

2 m
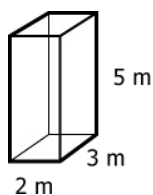
Ann wraps this box in paper.

How much paper does she use?

A. 62 m^2

B. 30 m^2

C. 53 m^2

14.

10 m

20 m
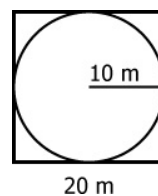
Which shows how much greater the square area is than the circle area?

A. 400 + 100π

B. 400 − 100π

C. 200π + 400

15.

Volume = Area of base × Height

6″

8″

Area of base = 16π in.^{2}

Volume = ___ in.^{3}

A. 96π

B. 48π

C. 40π

16.

r = 3″
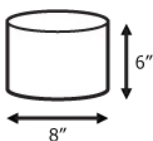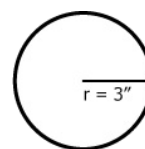
Which shows circumference?

A. 2 × 3 × 3

B. 2 × π

C. 2 × π × 3