

Question ID 1aa2b038

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Geometry and Trigonometry	Area and volume	<div><div></div><div></div><div></div></div>

ID: 1aa2b038

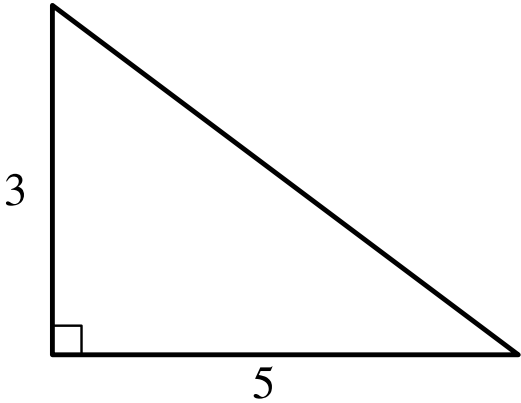
A right circular cylinder has a volume of **432** cubic centimeters. The area of the base of the cylinder is **24** square centimeters. What is the height, in centimeters, of the cylinder?

- A. **18**
- B. **24**
- C. **216**
- D. **10,368**

Question ID b458eea8

Assessment	Test	Domain	Skill	Difficulty
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ID: b458eea8



Note: Figure not drawn to scale.

The figure shows the lengths, in inches, of two sides of a right triangle. What is the area of the triangle, in square inches?

Question ID a298a9b6

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ID: a298a9b6

Square X has a side length of **12** centimeters. The perimeter of square Y is **2** times the perimeter of square X. What is the length, in centimeters, of one side of square Y?

- A. **6**
- B. **10**
- C. **14**
- D. **24**

Question ID 15709a24

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Geometry and Trigonometry	Area and volume	<div><div></div><div></div><div></div></div>

ID: 15709a24

A triangle has a base length of **40** centimeters and a height of **90** centimeters. What is the area, in square centimeters, of the triangle?

Question ID fd1a9b2e

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ID: fd1a9b2e

A right circular cylinder has a base diameter of **22** centimeters and a height of **6** centimeters. What is the volume, in cubic centimeters, of the cylinder?

- A. **132** π
- B. **264** π
- C. **726** π
- D. **2,904** π

Question ID f3cfbc3e

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Geometry and Trigonometry	Area and volume	<div><div></div><div></div><div></div></div>

ID: f3cfbc3e

A cylinder has a diameter of **8** inches and a height of **12** inches. What is the volume, in cubic inches, of the cylinder?

- A. **16** π
- B. **96** π
- C. **192** π
- D. **768** π

Question ID 2f004f77

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Geometry and Trigonometry	Area and volume	<div><div></div><div></div><div></div></div>

ID: 2f004f77

A right circular cylinder has a volume of **377** cubic centimeters. The area of the base of the cylinder is **13** square centimeters. What is the height, in centimeters, of the cylinder?

Question ID 7f94a1a7

Assessment	Test	Domain	Skill	Difficulty
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ID: 7f94a1a7

A cube has an edge length of **41** inches. What is the volume, in cubic inches, of the cube?

- A. **164**
- B. **1,681**
- C. **10,086**
- D. **68,921**

Question ID 1a5eb1b1

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Geometry and Trigonometry	Area and volume	<div><div></div><div></div><div></div></div>

ID: 1a5eb1b1

The side length of a square is **55 centimeters (cm)**. What is the area, **in cm²**, of the square?

- A. **110**
- B. **220**
- C. **3,025**
- D. **12,100**

Question ID c921127e

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Geometry and Trigonometry	Area and volume	<div><div></div><div></div><div></div></div>

ID: c921127e

A circle has a radius of **43** meters. What is the area, in square meters, of the circle?

- A. $\frac{43\pi}{2}$
- B. **43π**
- C. **86π**
- D. **$1,849\pi$**

Question ID fb51f672

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Geometry and Trigonometry	Area and volume	<div><div></div><div></div><div></div></div>

ID: fb51f672

What is the area, in square centimeters, of a rectangle with a length of **34 centimeters (cm)** and a width of **29 cm**?

Question ID 9a7ee377

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ID: 9a7ee377

A rectangle has an area of **63** square meters and a length of **9** meters. What is the width, in meters, of the rectangle?

- A. **7**
- B. **54**
- C. **81**
- D. **567**