

Question ID b99dedcc

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Geometry and Trigonometry	Area and volume	Medium

ID: b99dedcc

Triangle R has an area of **80 square centimeters (cm^2)**. Square S has side lengths of **4 cm**. What is the total area of triangle R and square S, **in cm^2** ?

- A. **42**
- B. **44**
- C. **84**
- D. **96**

Question ID 2936a402

Assessment	Test	Domain	Skill	Difficulty
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ID: 2936a402

A rectangle has a length of **3** units and a width of **39** units. Which expression gives the area, in square units, of this rectangle?

- A. **$2(3 + 39)$**
- B. **$2(3 \cdot 39)$**
- C. **$3 + 39$**
- D. **$3 \cdot 39$**

Question ID 50267599

Assessment	Test	Domain	Skill	Difficulty
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ID: 50267599

Each side of a square has a length of **45**. What is the perimeter of this square?

Question ID 257068e5

Assessment	Test	Domain	Skill	Difficulty
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ID: 257068e5

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**

Question ID f204dc90

Assessment	Test	Domain	Skill	Difficulty
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ID: f204dc90

A right rectangular prism has a length of **11** meters, a width of **8** meters, and a height of **10** meters. What is the volume, in cubic meters, of the prism?

Question ID 1b2292a2

Assessment	Test	Domain	Skill	Difficulty
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ID: 1b2292a2

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 b6f369df

Assessment	Test	Domain	Skill	Difficulty
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ID: b6f369df

What is the area, in square centimeters, of a rectangle with a length of **36** centimeters and a width of **34** centimeters?

- A. **70**
- B. **140**
- C. **1,156**
- D. **1,224**

Question ID fbaaa67c

Assessment	Test	Domain	Skill	Difficulty
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ID: fbaaa67c

The area of a rectangle is **57** square inches. The length of the longest side of the rectangle is **19** inches. What is the length, in inches, of the shortest side of this rectangle?

Question ID ac26b8f6

Assessment	Test	Domain	Skill	Difficulty
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ID: ac26b8f6

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 c35d99e6

Assessment	Test	Domain	Skill	Difficulty
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ID: c35d99e6

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 6f7e61cc

Assessment	Test	Domain	Skill	Difficulty
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ID: 6f7e61cc

The perimeter of triangle ABC is **17** inches, the length of side AB is **4** inches, and the length of side AC is **7** inches. What is the length, in inches, of side BC ?

- A. **4**
- B. **6**
- C. **7**
- D. **11**

Question ID 2e4644b1

Assessment	Test	Domain	Skill	Difficulty
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ID: 2e4644b1

A rectangle has a length of **64** inches and a width of **32** inches. What is the area, in square inches, of the rectangle?

Question ID a704d66e

Assessment	Test	Domain	Skill	Difficulty
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ID: a704d66e

The area of a rectangle is **630** square inches. The length of the rectangle is **70** inches. What is the width, in inches, of this rectangle?

- A. **9**
- B. **70**
- C. **315**
- D. **560**

Question ID f3e3b599

Assessment	Test	Domain	Skill	Difficulty
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ID: f3e3b599

The width of a rectangle is **7** centimeters. The length of the rectangle is **40** centimeters longer than the width. What is the area, in square centimeters, of this rectangle?

- A. **7**
- B. **14**
- C. **54**
- D. **329**

Question ID 8b4b3556

Assessment	Test	Domain	Skill	Difficulty
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ID: 8b4b3556

What is the perimeter, in inches, of a rectangle with a length of **4** inches and a width of **9** inches?

- A. **13**
- B. **17**
- C. **22**
- D. **26**

Question ID 9a1db7a4

Assessment	Test	Domain	Skill	Difficulty
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ID: 9a1db7a4

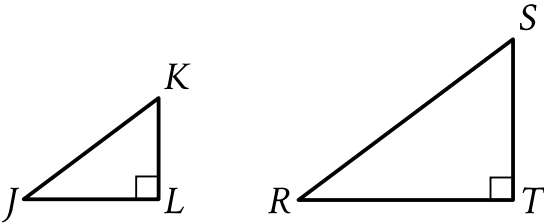
Each base of a right rectangular prism has a length of **19** inches and a width of **8** inches. The prism has a volume of **2,736** cubic inches. What is the height, in inches, of the prism?

- A. **18**
- B. **27**
- C. **144**
- D. **152**

Question ID 43536b08

Assessment	Test	Domain	Skill	Difficulty
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ID: 43536b08



Note: Figure not drawn to scale.

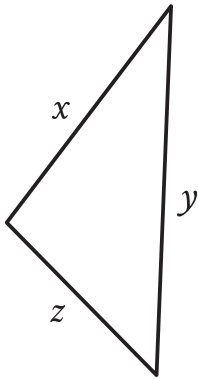
In the figure shown, triangle JKL is similar to triangle RST , where J corresponds to R and K corresponds to S . The length of \overline{JK} is 15, and the perimeter of triangle JKL is 36. The length of \overline{RS} is 135. What is the perimeter of triangle RST ?

- A. 324
- B. 540
- C. 2,916
- D. 8,100

Question ID 2522ce1e

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ID: 2522ce1e



Note: Figure not drawn to scale.

The triangle shown has a perimeter of **22** units. If $x = 9$ units and $y = 7$ units, what is the value of z , in units?

- A. 6
- B. 7
- C. 9
- D. 16

Question ID 6857a477

Assessment	Test	Domain	Skill	Difficulty
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ID: 6857a477

Rectangle P has an area of **72** square inches. If a rectangle with an area of **20** square inches is removed from rectangle P, what is the area, in square inches, of the resulting figure?

- A. **92**
- B. **84**
- C. **80**
- D. **52**

Question ID 4282d1db

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ID: 4282d1db

The table gives the perimeters of similar triangles TUV and XYZ , where \overline{TU} corresponds to \overline{XY} . The length of \overline{TU} is 6.

	Perimeter
Triangle TUV	50
Triangle XYZ	150

What is the length of \overline{XY} ?

- A. 2
- B. 6
- C. 18
- D. 56