

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Area and volume	Easy

ID: dd899ebf

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

$34(29) = 986 //$

Question ID b517b769

Assessment	Test	Domain	Skill	Difficulty
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ID: b517b769

Triangle R has an area of 80 square centimeters (cm²). Square S has side lengths of 4 cm. What is the total area of triangle R and square S, in cm²?

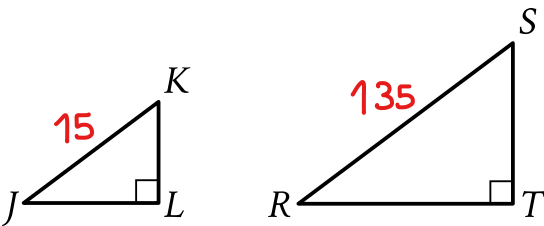
- A. 42
- B. 44
- C. 84
- ~~D. 96~~

$80 + 4(4) = 96 //$

Question ID 82cf5449

Assessment	Test	Domain	Skill	Difficulty
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ID: 82cf5449



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
- $\frac{15}{135} = \frac{36}{X}$
- $X = 324 //$

Question ID 4a5341e5

Assessment	Test	Domain	Skill	Difficulty
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ID: 4a5341e5

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?

$$\begin{aligned} 19 \times &= 57 \\ \times &= 3 \quad // \end{aligned}$$

Question ID a5cc361b

Assessment	Test	Domain	Skill	Difficulty
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ID: a5cc361b

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~~

$2(4) + 2(9) = 26 //$

Question ID e401c722

Assessment	Test	Domain	Skill	Difficulty
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ID: e401c722

What is the area of a rectangle with a length of 17 centimeters (cm) and a width of 7 cm?

- A. 24 cm²
- B. 48 cm²
- ~~C. 119 cm²~~
- D. 576 cm²

$17(7) = 119 //$

Question ID ad3bc7a0

Assessment	Test	Domain	Skill	Difficulty
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ID: ad3bc7a0

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~~

$72 - 20 = 52 //$

Question ID a1060875

Assessment	Test	Domain	Skill	Difficulty
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ID: a1060875



A rectangle has a length of 13 and a width of 6. What is the perimeter of the rectangle?

- A. 12
- B. 26
- C. 38
- D. 52

Question ID 49bb7ed7

Assessment	Test	Domain	Skill	Difficulty
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ID: 49bb7ed7

The lengths of two sides of a triangle are 4 centimeters and 6 centimeters. If the perimeter of the triangle is 18 centimeters, what is the length, in centimeters, of the third side of this triangle?

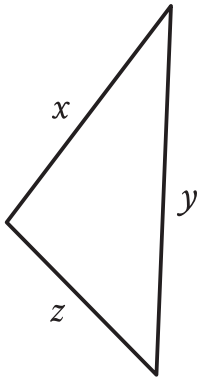
- A. 2
- ~~B. 8~~
- C. 10
- D. 24

$$18 = 4 + 6 + x$$
$$x = 8 //$$

Question ID 65c8a78d

Assessment	Test	Domain	Skill	Difficulty
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ID: 65c8a78d



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 e5ede4b8

Assessment	Test	Domain	Skill	Difficulty
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ID: e5ede4b8



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 e95ae88a

Assessment	Test	Domain	Skill	Difficulty
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ID: e95ae88a

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

$$17 = 4 + 7 + x$$
$$x = 6 //$$

Question ID 091c69dd

Assessment	Test	Domain	Skill	Difficulty
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ID: 091c69dd



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 850fa30c

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ID: 850fa30c



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 0f88eb2d

Assessment	Test	Domain	Skill	Difficulty
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ID: 0f88eb2d

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
- ~~X~~ 18
- D. 56

$$\frac{50}{150} = \frac{6}{x}$$
$$x = 18 //$$

Question ID fd6f7271

Assessment	Test	Domain	Skill	Difficulty
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ID: fd6f7271



What is the area, in square inches, of a rectangle with a length of 7 inches and a width of 6 inches?

- A. 13
- B. 20
- C. 42
- D. 84

Question ID 397307ae

Assessment	Test	Domain	Skill	Difficulty
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ID: 397307ae



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 eec9d2dc

Assessment	Test	Domain	Skill	Difficulty
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ID: eec9d2dc



The area of a square is ~~64~~ square inches. What is the side length, in inches, of this square?

- A. 8
- B. 16
- C. ~~64~~
- D. 128

Question ID aaf7481c

Assessment	Test	Domain	Skill	Difficulty
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ID: aaf7481c

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. $2(3 + 39)$ → Perimeter

$3 \times 39 //$

B. $2(3 \cdot 39)$

C. $3 + 39$

~~D. $3 \cdot 39$~~

Question ID 532c012b

Assessment	Test	Domain	Skill	Difficulty
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ID: 532c012b

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

$$19(8)X = 2,736$$
$$X = 18 //$$

Question ID b01d87be

Assessment	Test	Domain	Skill	Difficulty
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ID: b01d87be

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

$$63 = 9 \times$$
$$\times = 7 //$$

Question ID 260c2ab4

Assessment	Test	Domain	Skill	Difficulty
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ID: 260c2ab4

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

$$45(4) = 180 //$$

Question ID 070522bf

Assessment	Test	Domain	Skill	Difficulty
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ID: 070522bf

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~~

$$L = W + 40$$
$$L = 7 + 40$$
$$= 47$$
$$47(7) = 329 //$$

Question ID 8875a21b

Assessment	Test	Domain	Skill	Difficulty
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ID: 8875a21b

What is the area of a rectangle with a length of 4 centimeters (cm) and a width of 2 cm?

- A. 6 cm²
- ~~B. 8 cm²~~
- C. 12 cm²
- D. 36 cm²

$4(2) = 8 //$

Question ID c3ee52e5

Assessment	Test	Domain	Skill	Difficulty
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ID: c3ee52e5



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 8588cf5e

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ID: 8588cf5e

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?

$$11(8)(10) = 880 //$$