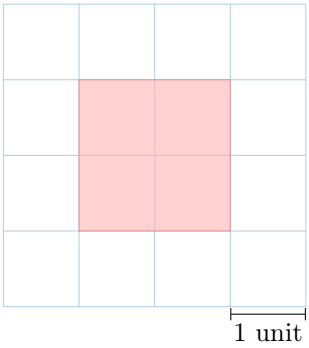
PERIMETER

A DEFINITION

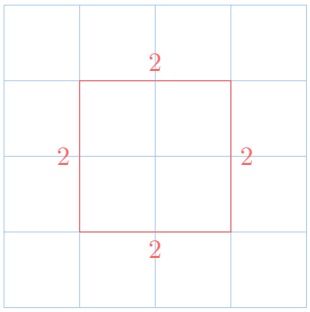
A.1 FINDING PERIMETER OF A SHAPE

Ex 1: What is the perimeter of the shaded figure?



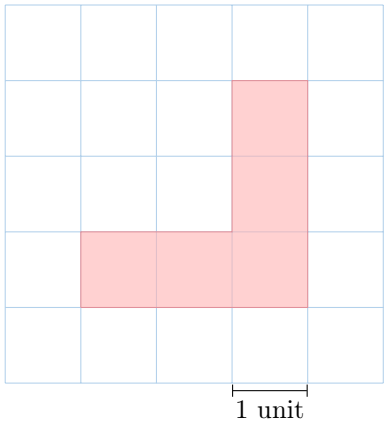
$\boxed{8}$ units

Answer:



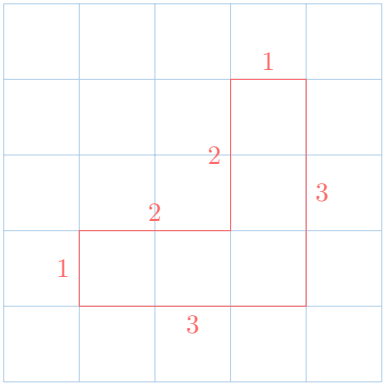
To find the perimeter, we add the length of all 4 sides : $2 + 2 + 2 + 2$.
The perimeter is 8 units.

Ex 2: What is the perimeter of the shaded figure?



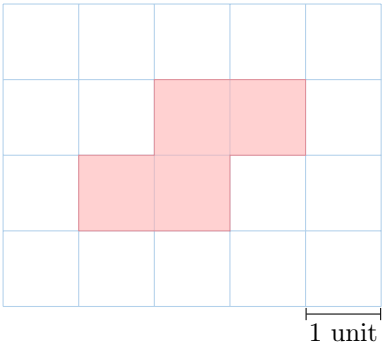
$\boxed{12}$ units

Answer:



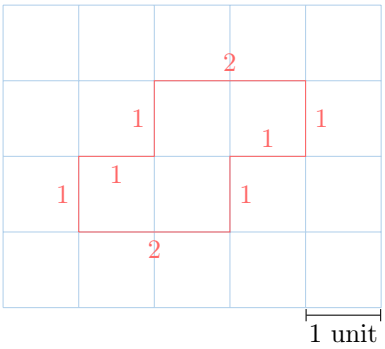
To find the perimeter, we add the length of all sides: $3 + 3 + 1 + 2 + 2 + 1$.
The perimeter is 12 units.

Ex 3: What is the perimeter of the shaded figure?



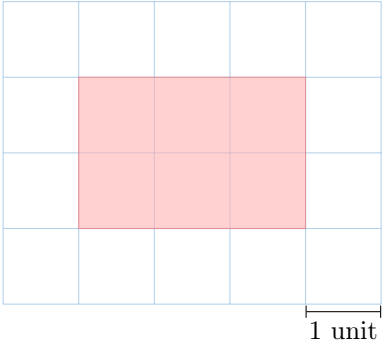
$\boxed{10}$ units

Answer:



To find the perimeter, we add the length of all sides: $2 + 1 + 1 + 1 + 2 + 1 + 1 + 1$.
The perimeter is 10 units.

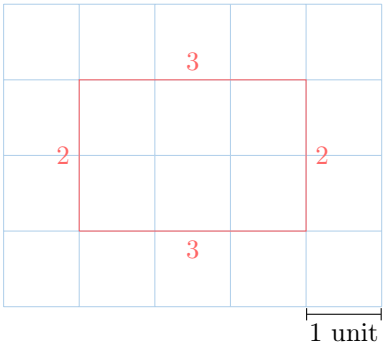
Ex 4: What is the perimeter of the shaded figure?



Answer:

$\boxed{10}$ units

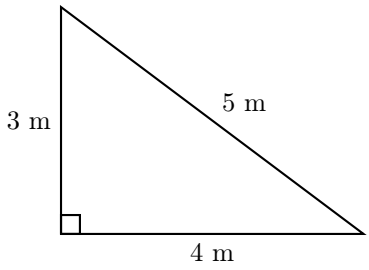
Answer:



To find the perimeter, we add the length of all sides: 3 + 2 + 3 + 2.
The perimeter is 10 units.

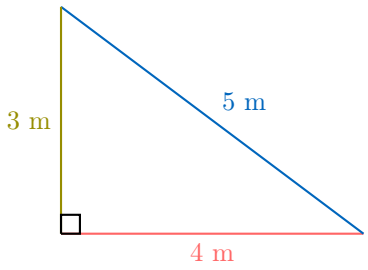
A.2 FINDING PERIMETER WHEN GIVEN SIDE LENGTHS

Ex 5: What is the perimeter of the right angle triangle?



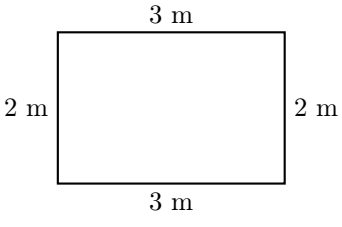
$\boxed{12}$ meters

Answer: We find the perimeter by adding all of the side lengths.



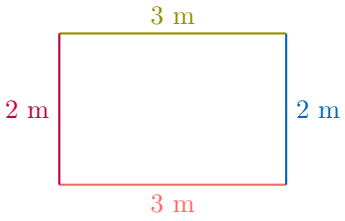
$$\text{Perimeter} = 4\text{ m} + 5\text{ m} + 3\text{ m}$$
$$= 12\text{ m}$$

Ex 6: What is the perimeter of the rectangle?



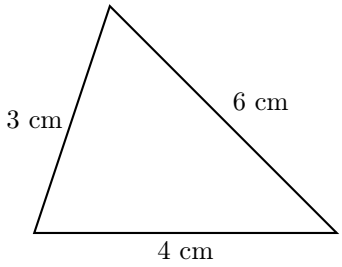
$\boxed{10}$ meters

Answer: We find the perimeter by adding all of the side lengths.



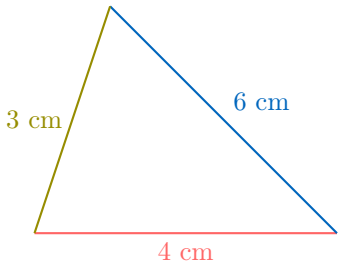
$$\text{Perimeter} = 3\text{ m} + 2\text{ m} + 3\text{ m} + 2\text{ m}$$
$$= 10\text{ m}$$

Ex 7: What is the perimeter of the scalene ?



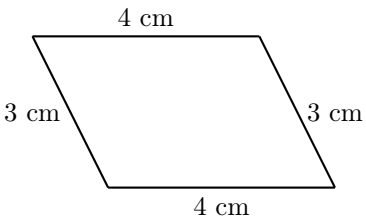
$\boxed{13}$ centimeters

Answer: We find the perimeter by adding all of the side lengths.



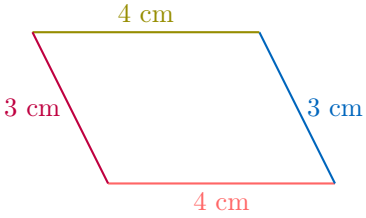
$$\text{Perimeter} = 4\text{ cm} + 6\text{ cm} + 3\text{ cm}$$
$$= 13\text{ cm}$$

Ex 8: What is the perimeter of the parallelogram?



$\boxed{14}$ centimeters

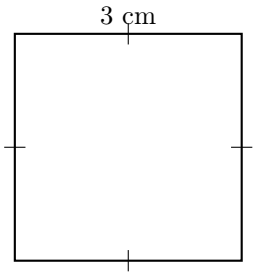
Answer: We find the perimeter by adding all of the side lengths.



$$\text{Perimeter} = 4\text{ cm} + 3\text{ cm} + 4\text{ cm} + 3\text{ cm}$$
$$= 14\text{ cm}$$

A.3 BUILDING EXPRESSIONS

MCQ 9: Which of the following expressions can be used to find the perimeter of the square?
All sides are the same length.



Choose 2 answers:

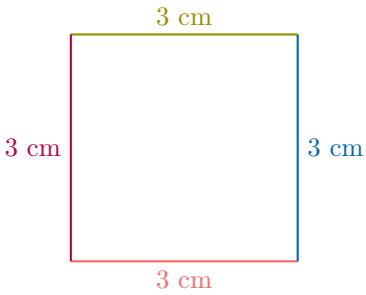
☒ 4×3

☐ $4 + 3$

☒ $3 + 3 + 3 + 3$

☐ $3 + 3$

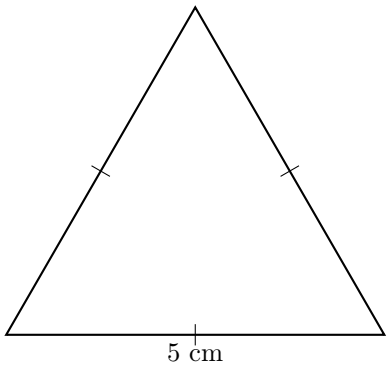
Answer: In the square, all sides are the same length.



$$\text{Perimeter} = 3 + 3 + 3 + 3$$
$$= 4 \times 3$$

So, the correct expressions are 4×3 and $3+3+3+3$, both equal to 12 cm.

MCQ 10: Which of the following expressions can be used to find the perimeter of the equilateral triangle?
All sides are the same length.



Choose 2 answers:

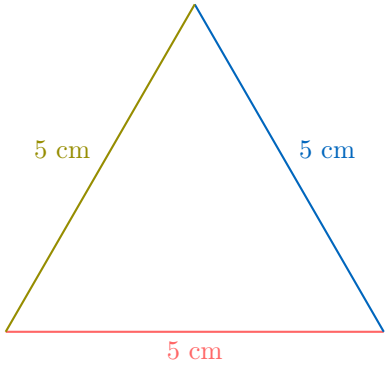
☐ $5 + 3$

☒ 3×5

☒ $5 + 5 + 5$

☐ $5 + 5$

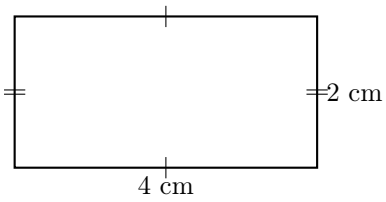
Answer: In the equilateral triangle, all sides are the same length.



$$\text{Perimeter} = 5 + 5 + 5$$
$$= 3 \times 5$$

So, the correct expressions are 3×5 and $5+5+5$, both equal to 15 cm.

MCQ 11: Which of the following expressions can be used to find the perimeter of the rectangle?
Opposite sides are the same length.



Choose 2 answers:

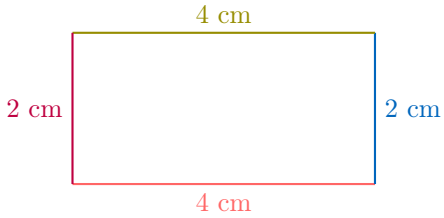
☐ $2 + 4$

☒ $(2 \times 2) + (2 \times 4)$

☒ $4 + 4 + 2 + 2$

☐ 4×2

Answer: In the rectangle, opposite sides are the same length.



$$\text{Perimeter} = 4 + 4 + 2 + 2$$
$$= (2 \times 4) + (2 \times 2)$$

So, the correct expressions are $(2 \times 2) + (2 \times 4)$ and $4+4+2+2$, both equal to 12 cm.