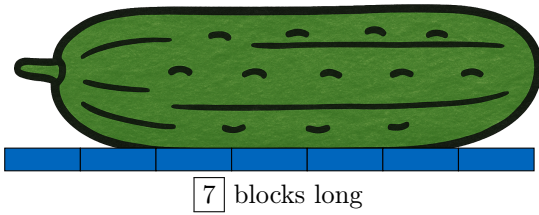


# LENGTHS

## A MEASURING LENGTHS

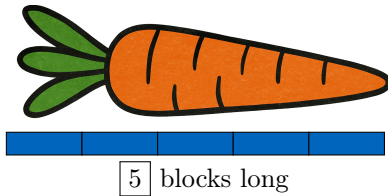
### A.1 MEASURING LENGTHS WITH BLOCKS

Ex 1: How long?



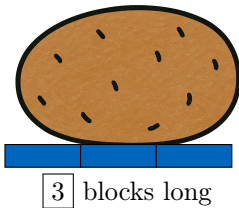
Answer: The cucumber measures 7 blocks long.

Ex 2: How long?



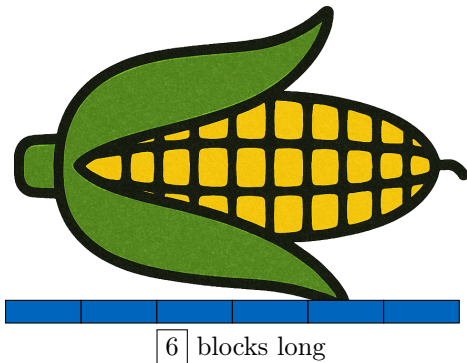
Answer: The carrot measures 5 blocks long.

Ex 3: How long?



Answer: The potato measures 3 blocks long.

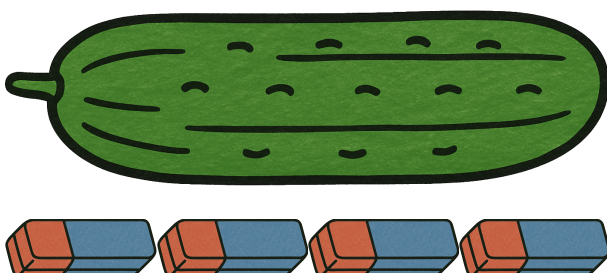
Ex 4: How long?



Answer: The corn measures 6 blocks long.

### A.2 MEASURING LENGTHS WITH ERASERS

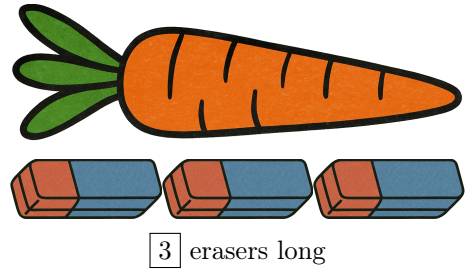
Ex 5: How long?



4 erasers long

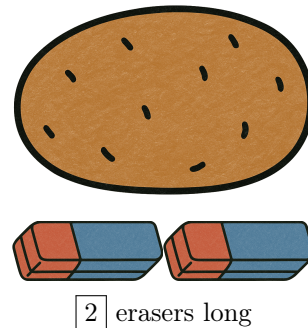
Answer: The cucumber measures 4 erasers long.

Ex 6: How long?



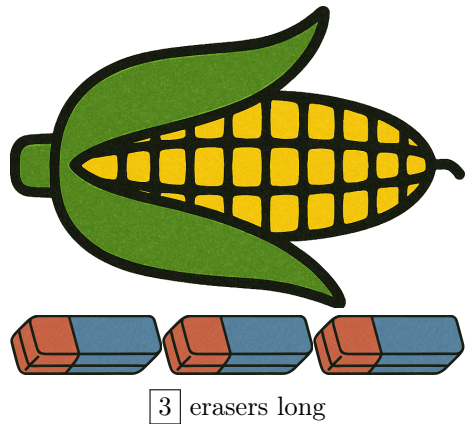
Answer: The carrot measures 3 erasers long.

Ex 7: How long?



Answer: The potato measures 2 erasers long.

Ex 8: How long?



Answer: The corn measures 3 erasers long.

## B LENGTH UNITS

### B.1 CHOOSING THE UNIT OF LENGTH

MCQ 9: Which unit will be used to measure how tall a house is?

Choose 1 answer:

☐ Centimeters

☒ Meters

Answer: Meters will be used to measure how tall a house is.

MCQ 10: Which unit will be used to measure how long a pencil is?

Choose 1 answer:

- ☐ Centimeters
- ☒ Meters

Answer: Centimeters will be used to measure how long a pencil is.

MCQ 11: Which unit will be used to measure how tall a tree is?

Choose 1 answer:

- ☐ Centimeters
- ☒ Meters

Answer: Meters will be used to measure how tall a tree is.

MCQ 12: Which unit will be used to measure how long a book is?

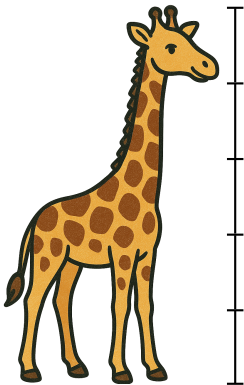
Choose 1 answer:

- ☐ Centimeters
- ☒ Meters

Answer: Centimeters will be used to measure how long a book is.

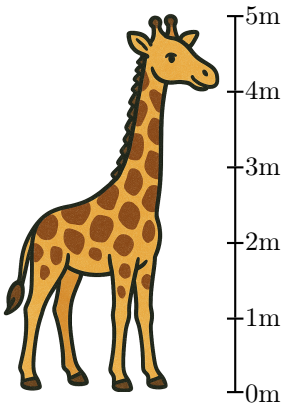
B.2 MEASURING

Ex 13:

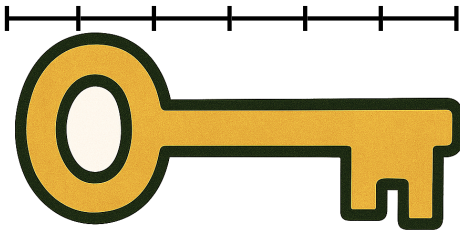


The giraffe measures 5 meters tall.

Answer: The giraffe measures 5 meters tall.

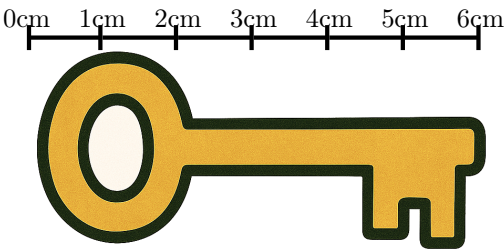


Ex 14:

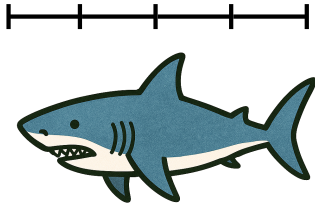


The key measures 6 centimeters long.

Answer: The key measures 6 centimeters long.

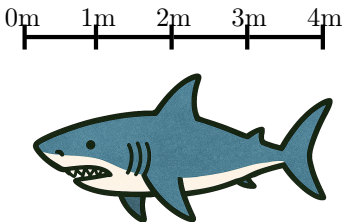


Ex 15:

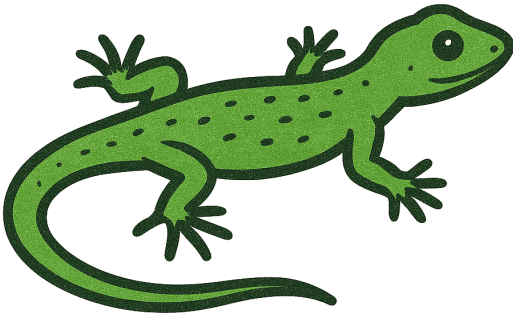


The shark measures 4 meters long.

Answer: The shark measures 4 meters long.



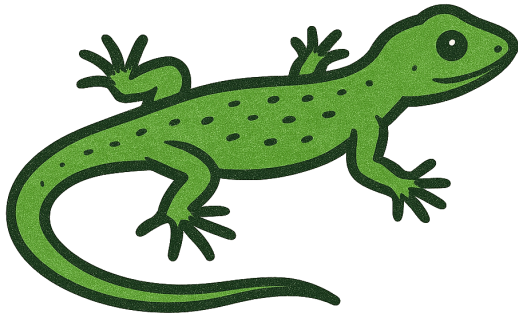
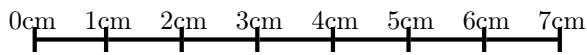
Ex 16:



The lizard measures 7 centimeters long.

Answer: The lizard measures 7 centimeters long.

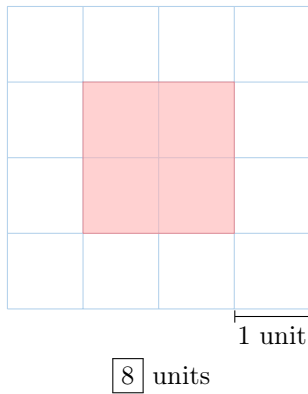




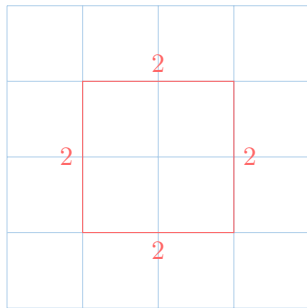
## C PERIMETER

### C.1 FINDING PERIMETER OF A SHAPE

**Ex 17:** What is the perimeter of the shaded figure?



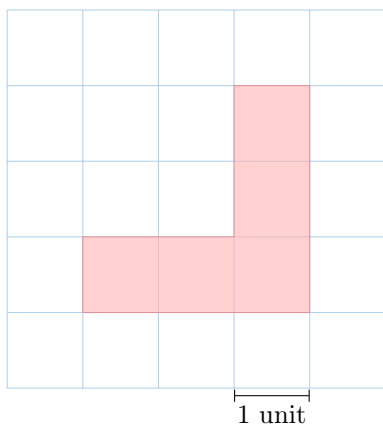
*Answer:*



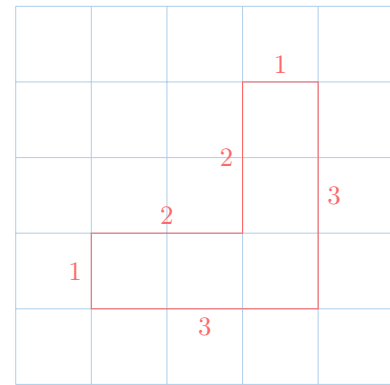
To find the perimeter, we add the length of all 4 sides :  $2 + 2 + 2 + 2$ .

The perimeter is 8 units.

**Ex 18:** What is the perimeter of the shaded figure?



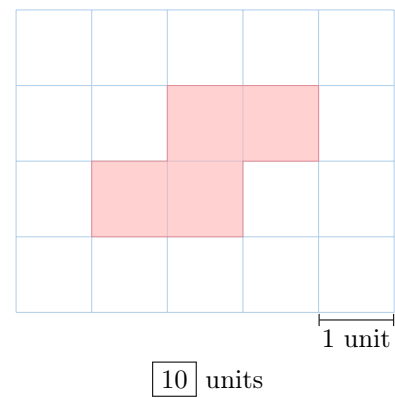
*Answer:*



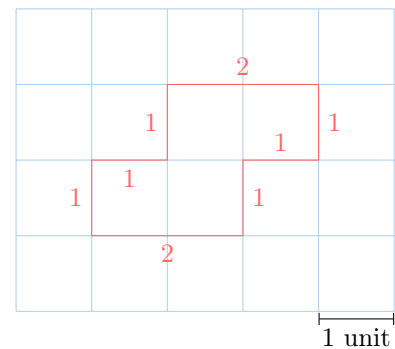
To find the perimeter, we add the length of all sides:  $3 + 3 + 1 + 2 + 2 + 1$ .

The perimeter is 12 units.

**Ex 19:** What is the perimeter of the shaded figure?



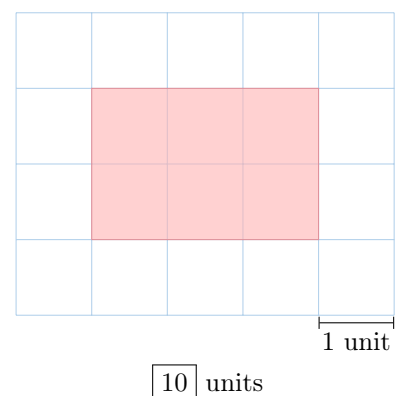
*Answer:*



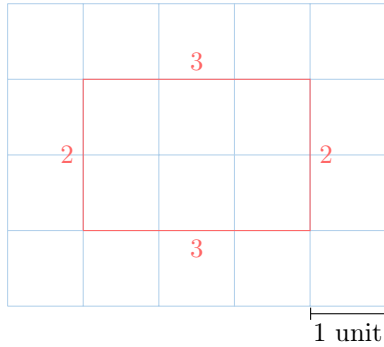
To find the perimeter, we add the length of all sides:  $2 + 1 + 1 + 1 + 2 + 1 + 1 + 1$ .

The perimeter is 10 units.

**Ex 20:** What is the perimeter of the shaded figure?



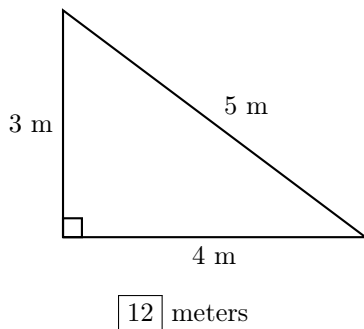
Answer:



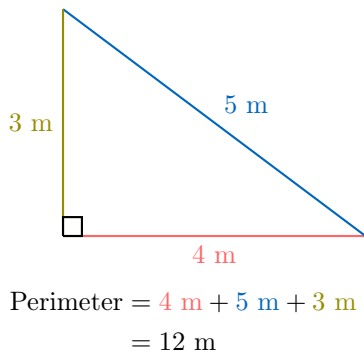
To find the perimeter, we add the length of all sides:  $3 + 2 + 3 + 2$ .  
The perimeter is 10 units.

## C.2 FINDING PERIMETER WHEN GIVEN SIDE LENGTHS

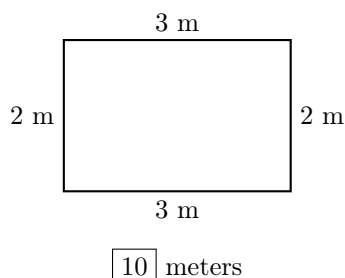
**Ex 21:** What is the perimeter of the right angle triangle?



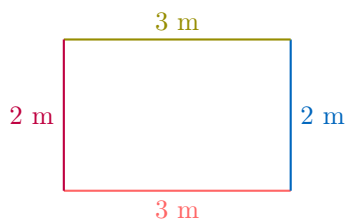
Answer: We find the perimeter by adding all of the side lengths.



**Ex 22:** What is the perimeter of the rectangle?

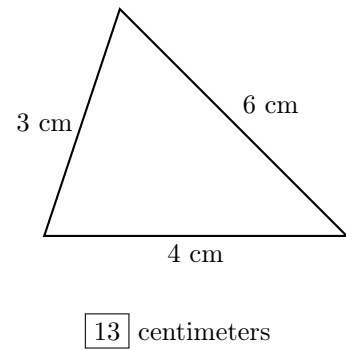


Answer: We find the perimeter by adding all of the side lengths.

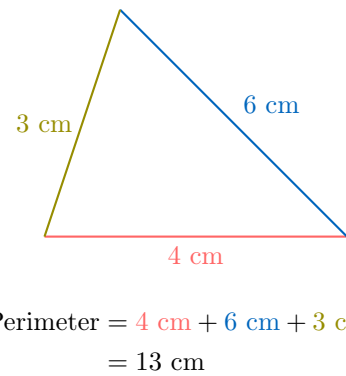


$$\begin{aligned} \text{Perimeter} &= 3 \text{ m} + 2 \text{ m} + 3 \text{ m} + 2 \text{ m} \\ &= 10 \text{ m} \end{aligned}$$

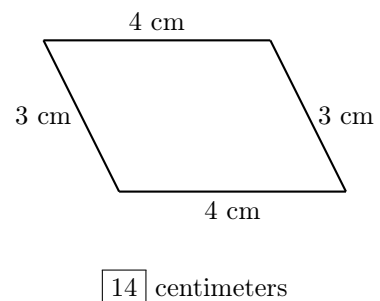
**Ex 23:** What is the perimeter of the scalene ?



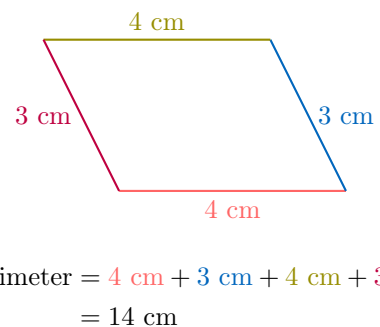
Answer: We find the perimeter by adding all of the side lengths.



**Ex 24:** What is the perimeter of the parallelogram?

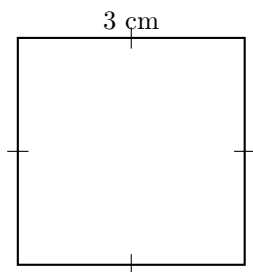


Answer: We find the perimeter by adding all of the side lengths.



## C.3 BUILDING EXPRESSIONS

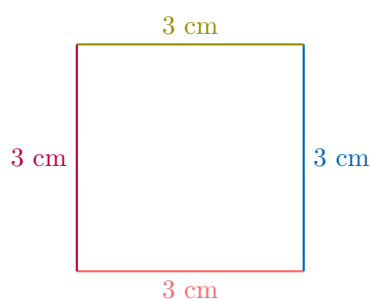
**MCQ 25:** Which of the following expressions can be used to find the perimeter of the square?  
All sides are the same length.



Choose 2 answers:

- ☒  $4 \times 3$   
☐  $4 + 3$   
☒  $3 + 3 + 3 + 3$   
☐  $3 + 3$

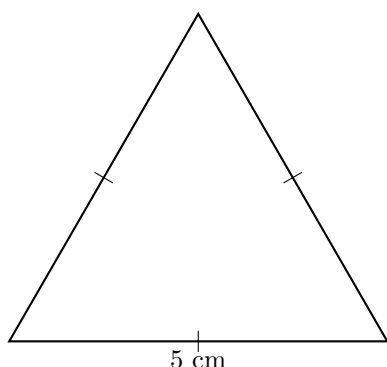
*Answer:* In the square, all sides are the same length.



$$\begin{aligned}\text{Perimeter} &= 3 + 3 + 3 + 3 \\ &= 4 \times 3\end{aligned}$$

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

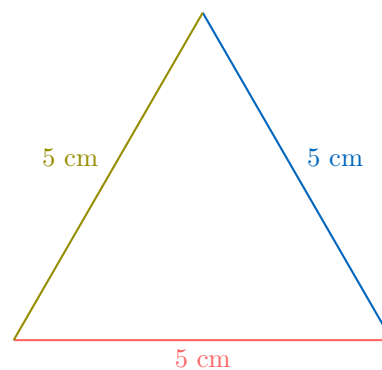
**MCQ 26:** Which of the following expressions can be used to find the perimeter of the equilateral triangle?  
All sides are the same length.



Choose 2 answers:

- ☐  $5 + 3$   
☒  $3 \times 5$   
☒  $5 + 5 + 5$   
☐  $5 + 5$

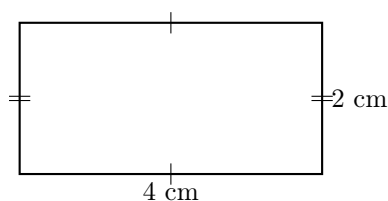
*Answer:* In the equilateral triangle, all sides are the same length.



$$\begin{aligned}\text{Perimeter} &= 5 + 5 + 5 \\ &= 3 \times 5\end{aligned}$$

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

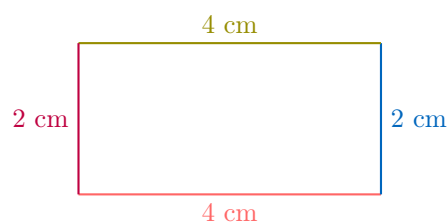
**MCQ 27:** Which of the following expressions can be used to find the perimeter of the rectangle?  
Opposite sides are the same length.



Choose 2 answers:

- ☐  $2 + 4$   
☒  $(2 \times 2) + (2 \times 4)$   
☒  $4 + 4 + 2 + 2$   
☐  $4 \times 2$

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



$$\begin{aligned}\text{Perimeter} &= 4 + 4 + 2 + 2 \\ &= (2 \times 4) + (2 \times 2)\end{aligned}$$

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