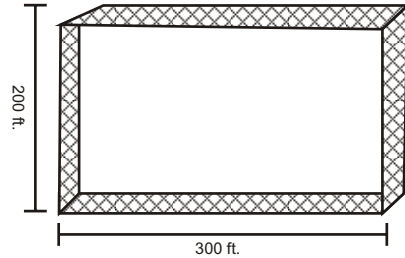


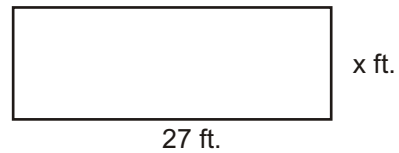
Perimeter

Story Problems

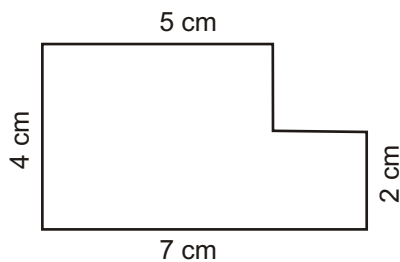
1. If the width of a rectangle is 14 inches and the length is 8 inches, what must the perimeter of the rectangle be?
2. A farmer is building a rectangular fence for his horses. It will cost him \$1.19 per linear foot of fencing material. Study the diagram of the fence below and determine what the total cost of fence will be.



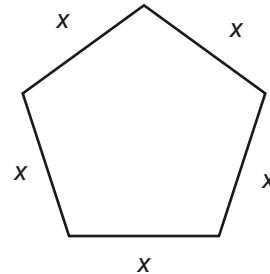
3. If the perimeter of a triangle is 50 cm and two sides are exactly 20 cm in length, what must be the length of the third side? What type of triangle has two sides that are equal in length?
4. Study the rectangle below. If the perimeter of the rectangle is 72 ft., what must be the length of the unknown side?



5. Find the perimeter of the shape below.



6. If the perimeter of the regular pentagon is 12.5 inches, what must be the length of each side?



7. If the perimeter of a rectangle is 24 inches and the length of the rectangle is 3 times longer than the width, what must be the length and width of the rectangle?
8. A rectangle has a length of 20 cm. The width of the same rectangle is 1.5 times longer than its length. What is the perimeter of that rectangle?

Perimeter

Story Problems

1. If the width of a rectangle is 14 inches and the length is 8 inches, what must the perimeter of the rectangle be?

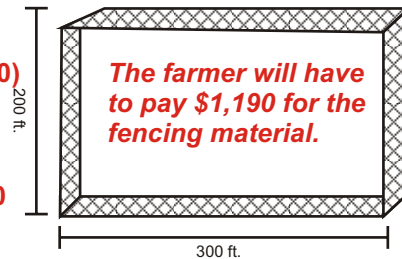
$$\begin{aligned}
 P &= 2L + 2W \\
 P &= 2(8) + 2(14) \\
 P &= 16 + 28
 \end{aligned}$$

$$P = 44 \text{ inches}$$

2. A farmer is building a rectangular fence for his horses. It will cost him \$1.19 per linear foot of fencing material. Study the diagram of the fence below and determine what the total cost of fence will be.

$$\begin{aligned}
 P &= 2L + 2W \\
 P &= 2(200) + 2(300) \\
 P &= 400 + 600 \\
 P &= 1,000 \text{ ft.}
 \end{aligned}$$

$$1,000 \times 1.19 = \$1,190$$

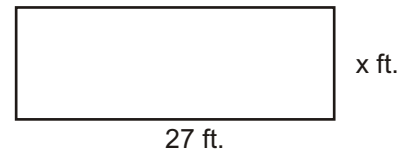


3. If the perimeter of a triangle is 50 cm and two sides are exactly 20 cm in length, what must be the length of the third side? What type of triangle has two sides that are equal in length?

The third side must be 10 cm in length.

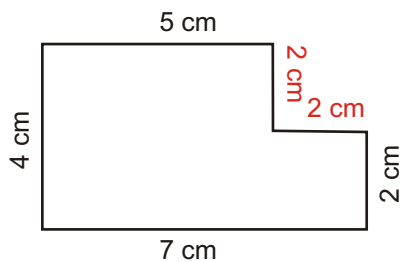
A triangle with two sides identical in length is called an isosceles triangle.

4. Study the rectangle below. If the perimeter of the rectangle is 72 ft., what must be the length of the unknown side?



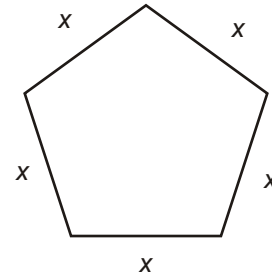
The length of the unknown side must be 9 ft.

5. Find the perimeter of the shape below.



The perimeter of the shape is 22 cm.

6. If the perimeter of the regular pentagon is 12.5 inches, what must be the length of each side?



Each side of the pentagon must be 2.5 inches.

7. If the perimeter of a rectangle is 24 inches and the length of the rectangle is 3 times longer than the width, what must be the length and width of the rectangle?

The width is 3 inches and the length is 9 inches.

8. A rectangle has a length of 20 cm. The width of the same rectangle is 1.5 times longer than its length. What is the perimeter of that rectangle?

The perimeter of the rectangle is 100 centimeters.