

Why Does Batman Brush His Teeth So Often?

Solve any problem below. Find your answer in the answer column and notice the letter next to it. Write this letter in each box that contains the number of that problem. Keep working and you will discover the answer to the title question.



- ① The length of a rectangle is 7 centimeters greater than the width. The perimeter is 54 centimeters. Find the length and width.
- ② The length of a rectangle is 3 times the width. The perimeter is 120 meters. Find the length and width.
- ③ The length of a rectangle is 5 centimeters more than twice the width. The perimeter is 82 centimeters. Find the length and width.
- ④ The perimeter of a rectangle is 400 meters. The length is 15 meters less than 4 times the width. Find the length and width.
- ⑤ The perimeter of a triangle is 26 centimeters. Side **a** of the triangle is 3 centimeters longer than side **b**. Side **c** is 1 centimeter shorter than twice side **b**. Find the length of each side.
- ⑥ The first side of a triangle is 8 meters longer than twice the second side. The third side is 3 times the second side. The perimeter is 128 meters. Find the lengths of the three sides.
- ⑦ Side **a** of a triangle is twice side **b**. Side **c** is 2 meters shorter than side **a**. The perimeter is 98 meters. Find the length of each side.
- ⑧ The perimeter of a triangle is 33 centimeters. The first side is 5 centimeters shorter than the second, and the third is twice the first. Find the lengths of the sides.
- ⑨ An ice hockey rink is a rectangle with a perimeter of 174 meters. The length is 9 meters more than twice the width. Find the length and width.
- ⑩ A triangular course for a sailing race is marked off by buoys. The first leg is 250 meters longer than the second, and the third leg is 100 meters shorter than the first. If the length of the course is 2500 meters, find the length of each leg.

- Ⓚ 19 cm; 12 cm
- Ⓞ 9 cm; 6 cm; 11 cm
- Ⓡ 40 m; 20 m; 38 m
- Ⓛ 59 m; 28 m
- Ⓝ 17 cm; 10 cm
- Ⓜ 44 m; 21 m; 66 m
- ⓗ 29 cm; 12 cm
- Ⓟ 61 m; 26 m
- Ⓟ 48 m; 20 m; 60 m
- ⓖ 8 cm; 10 cm; 16 cm
- ⓔ 157 m; 43 m
- Ⓛ 27 cm; 11 cm
- Ⓥ 7 cm; 12 cm; 14 cm
- ⓐ 45 m; 15 m
- Ⓢ 900 m; 650 m; 950 m
- Ⓣ 950 m; 700 m; 850 m

