

## 46. How to calculate the perimeter of compound shapes



**Practice Questions: Round answers to 2 decimal places, use  $\pi = 3.14$**

1. A shape is made of a rectangle with length 8 cm and width 6 cm. On each of the 6 cm sides, there is a semi-circle. What is the total perimeter of the shape?



2. A shape is made of a rectangle with length 12 mm and width 9 mm. On each of the 9 mm sides, there is a semi-circle. What is the total perimeter of the shape?

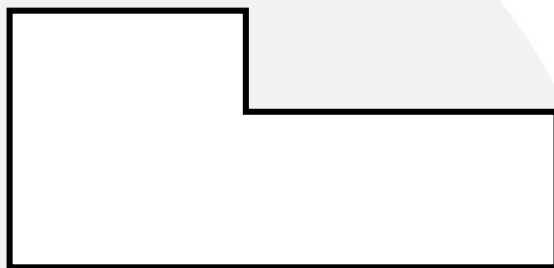


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3. A shape is made of a rectangle with length 6 m and width 4 m. On the 6m side to the right of the rectangle, there is a rectangle with a length 5 m and width 3 m. What is the total perimeter of the shape?



4. A shape is made of a rectangle with length 10 cm and width 8 cm. On one of the 8 cm sides, there is a semi-circle. What is the total perimeter of the shape?

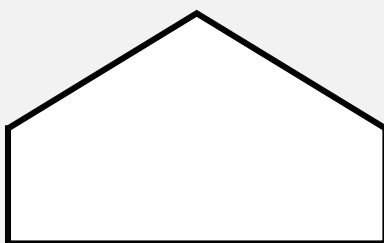


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**Practice Questions: Round answers to 2 decimal places, use  $\pi = 3.14$**

5. A shape is made of a rectangle with length 14 mm and width 4 mm. On the top 14 mm side, there is a triangle with a base of 14mm and side lengths 10mm. What is the total perimeter of the shape?



6. A shape is made of a rectangle with length 9 m and width 5 m. On one of the 5 m sides, there is a semi-circle. What is the total perimeter of the shape?

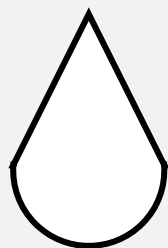


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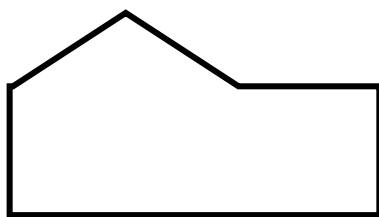


**Practice Questions: Round answers to 2 decimal places, use  $\pi = 3.14$**

7. A shape is made of a an isosceles triangle with lengths 10 cm, 10 cm and 3 cm. On the 3cm side there is a semi-circle. What is the total perimeter of this shape.



8. A shape is made of a rectangle with length 13 m and width 9 m. On one of the 13 m sides, there is an isosceles triangle with base 8 m and sides 5 m. What is the total perimeter of the shape?

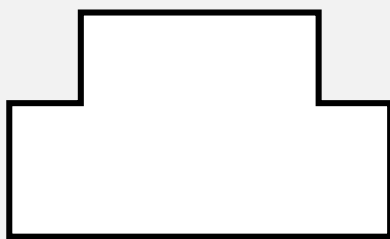


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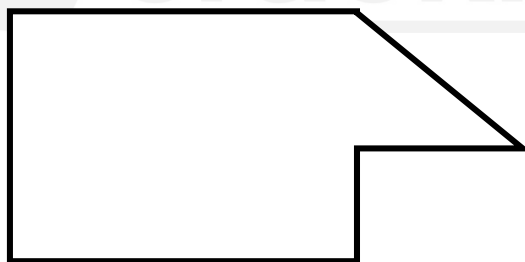


**Practice Questions: Round answers to 2 decimal places, use  $\pi = 3.14$**

9. A shape is made of a rectangle with length 16 cm and width 11 cm. On one of the 16 cm sides, there is another rectangle with length 10 cm and width 3 cm. What is the total perimeter of the shape?



10. A shape is made of a rectangle with length 7 m and width 5 m. On one of the 5 m sides, there is a right-angled triangle with sides 3 m, 4 m and 5 m. The shapes are joined along the triangle's 3 m edge. What is the total perimeter of the shape?



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### Practice Questions: **Answers**

1. A shape is made of a rectangle with length 8 cm and width 6 cm. On each of the 6 cm sides, there is a semi-circle. What is the total perimeter of the shape?



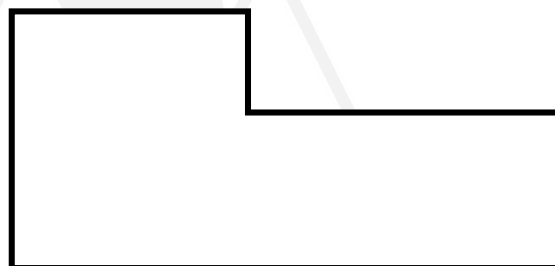
**1. Total perimeter = 8 cm + 8 cm + 9.42 cm + 9.42 cm = 34.84 cm**

2. A shape is made of a rectangle with length 12 mm and width 9 mm. On each of the 9 mm sides, there is a semi-circle. What is the total perimeter of the shape?



**2. Total perimeter = 12 mm + 12 mm + 14.13 mm + 14.13 mm = 52.26 mm**

3. A shape is made of a rectangle with length 6 m and width 4 m. On the 6 m side to the right of the rectangle, there is a rectangle with a length 5 m and width 3 m. What is the total perimeter of the shape?



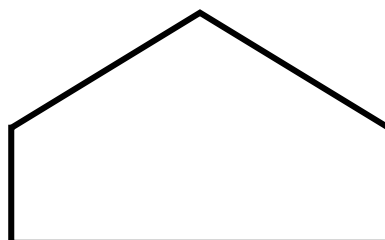
**3. Total perimeter = 4 m + 6 m + 4 m + 5 m + 3 m + 5 m + (6 m - 3 m) = 30 m**

4. A shape is made of a rectangle with length 10 cm and width 8 cm. On one of the 8 cm sides, there is a semi-circle. What is the total perimeter of the shape?



**4. Total perimeter = 10 cm + 10 cm + 8 cm + 12.56 cm = 40.56 cm**

5. A shape is made of a rectangle with length 14 mm and width 4 mm. On the top 14 mm side, there is a triangle with a base of 14 mm and side lengths 10 mm. What is the total perimeter of the shape?



**5. Total perimeter = 14 mm + 10 mm + 10 mm + 4 mm + 4 mm = 42 mm**

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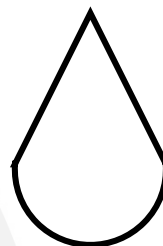
### Practice Questions: **Answers**

6. A shape is made of a rectangle with length 9 m and width 5 m. On one of the 5 m sides, there is a semi-circle. What is the total perimeter of the shape?



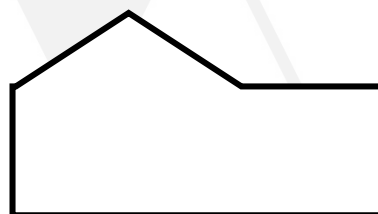
**6. Total perimeter = 9 m + 9 m + 5 m + 7.85 = 30.85 m**

7. A shape is made of a an isosceles triangle with lengths 10 cm, 10 cm and 3 cm. On the 3cm side there is a semi-circle. What is the total perimeter of this shape.



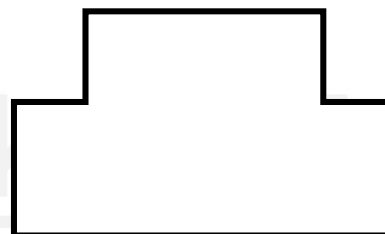
**7. Total perimeter = 10 cm + 10 cm + 4.71 cm = 24.71 cm**

8. A shape is made of a rectangle with length 13 m and width 9 m. On one of the 13 m sides, there is an isosceles triangle with base 8 m and sides 5 m. What is the total perimeter of the shape?



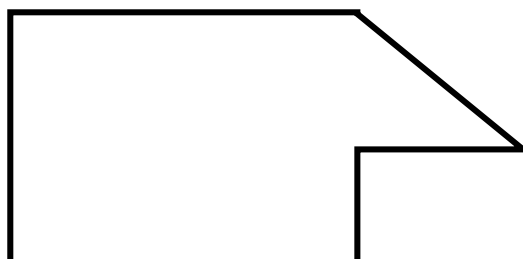
**8. Total perimeter = 9 m + 13 m + 9 m + 5 m + 5 m + (13 m - 8 m) = 46 m**

9. A shape is made of a rectangle with length 16 cm and width 11 cm. On one of the 16 cm sides, there is another rectangle with length 10cm and width 3 cm. What is the total perimeter of the shape?



**9. Total perimeter = 11 cm + 16 cm + 11 cm + 16 cm + 3 cm + 3 cm = 60 cm**

10. A shape is made of a rectangle with length 7 m and width 5 m. On one of the 5 m sides, there is a right-angled triangle with sides 3m, 4m and 5m. The shapes are joined along the triangles 3m edge. What is the total perimeter of the shape?



**10. Total perimeter = 7 m + 5 m + 7 m + 5 m + 4 m + (5 m - 3 m) = 30 m**