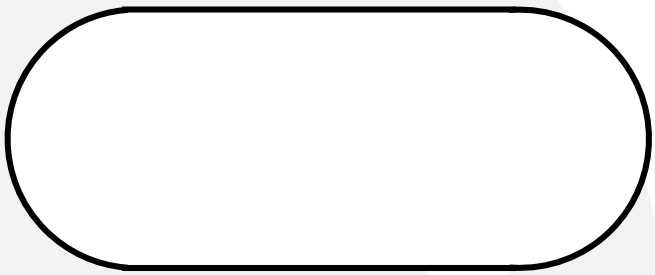
45. How to calculate the area of compound shapes

Practice Questions: Round answers to 2 decimal places, use π = 3.14

1. A shape is made of a rectangle with length 10 cm and width 6 cm. On each of the 6 cm sides, there is a semi-circle. What is the total area of the shape?



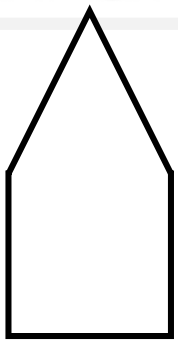
2. A shape is made of a rectangle with length 15 mm and width 9 mm. On each of the 9 mm sides, there is a semi-circle. What is the total area of the shape?

45. How to calculate the area of compound shapes

Practice Questions: Round answers to 2 decimal places, use π = 3.14

3. A shape is made of a rectangle with length 4 m and width 3 m. On each of the 3 m sides, there is a semi-circle. What is the total area of the shape?

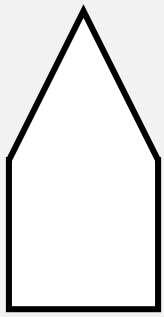
4. A shape is made of a triangle with base 8 cm and height 6 cm. On the base, there is a rectangle whose length is equal to the base of the triangle, and width is equal to the height of the triangle. What is the total area of the shape?



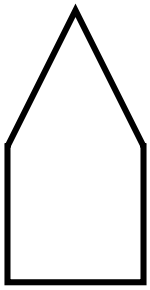
45. How to calculate the area of compound shapes

Practice Questions: Round answers to 2 decimal places, use π = 3.14

5. A shape is made of a triangle with base 12 mm and height 9 mm. On the base, there is a rectangle whose length is equal to the base of the triangle, and width is equal to the height of the triangle. What is the total area of the shape?



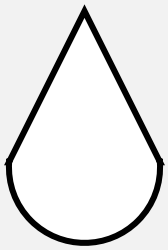
6. A shape is made of a triangle with base 5 m and height 4 m. On the base, there is a rectangle whose length is equal to the base of the triangle, and width is equal to the height of the triangle. What is the total area of the shape?



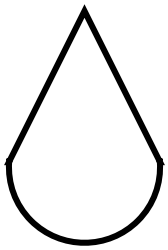
45. How to calculate the area of compound shapes

Practice Questions: Round answers to 2 decimal places, use π = 3.14

7. A shape is made of a triangle with base 6 cm and height 4 cm. On the base, there is a semi-circle. What is the total area of the shape?



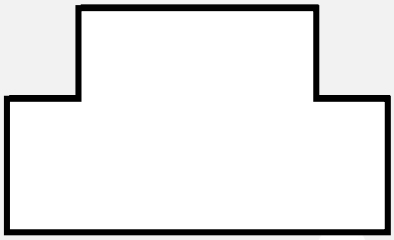
8. A shape is made of a triangle with base 10 mm and height 8 mm. On the base, there is a semi-circle. What is the total area of the shape?



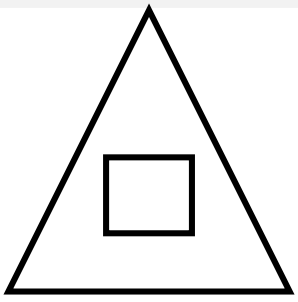
45. How to calculate the area of compound shapes

Practice Questions: Round answers to 2 decimal places, use π = 3.14

9. A shape is made of a rectangle with length 7 m and width 5 m. On top is another rectangle with length 5m and width 2m, What is the total area of the shape?



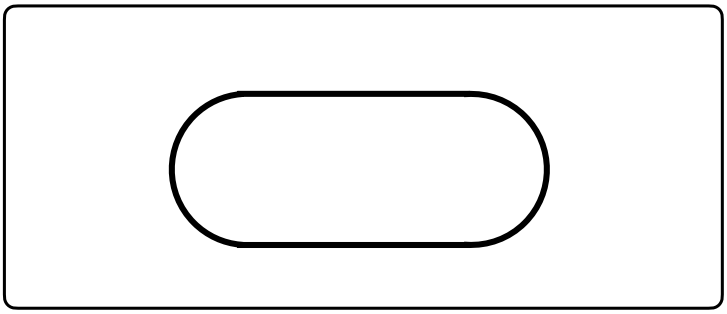
10. A shape is made of a triangle with base 9 cm and height 6 cm. Cut out of the triangle is a square with side length 3 cm. What is the total area of the shape?



45. How to calculate the area of compound shapes

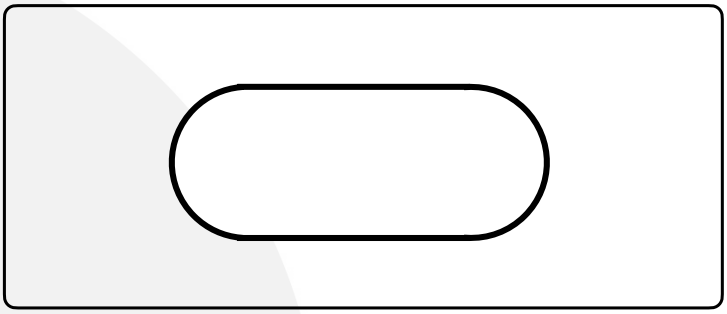
Practice Questions: Answers

1. A shape is made of a rectangle with length 10 cm and width 6 cm. On each of the 6 cm sides, there is a semi-circle. What is the total area of the shape?



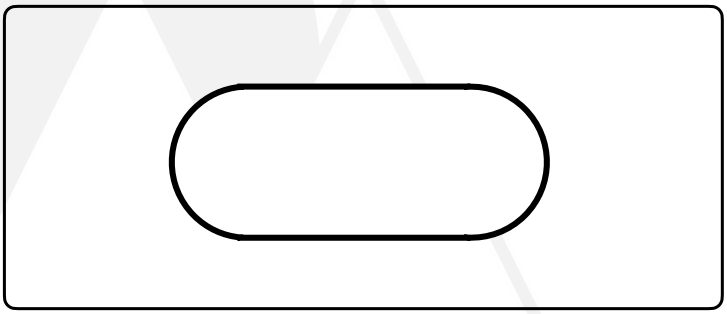
1. Total area = 60 cm² + 14.13 cm² + 14.13 cm² = 88.26 cm²

2. A shape is made of a rectangle with length 15 mm and width 9 mm. On each of the 9 mm sides, there is a semi-circle. What is the total area of the shape?



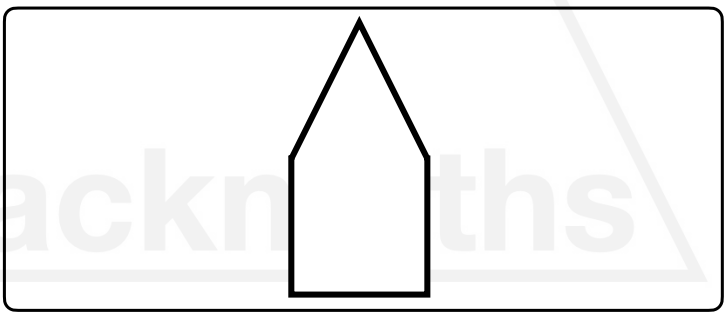
2. Total area = 135 mm² + 31.79 mm² + 31.79 mm² = 198.59 mm²

3. A shape is made of a rectangle with length 4 m and width 3 m. On each of the 3 m sides, there is a semi-circle. What is the total area of the shape?



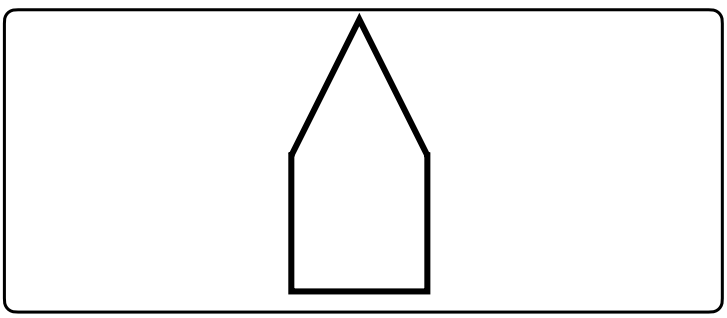
3. Total area = 12 m² + 3.53 m² + 3.53 m² = 19.07 m²

4. A shape is made of a triangle with base 8 cm and height 6 cm. On the base, there is a rectangle whose length is equal to the base of the triangle, and width is equal to the height of the triangle. What is the total area of the shape?



4. Total area = 24 cm² + 48 cm² = 72 cm²

5. A shape is made of a triangle with base 12 mm and height 9 mm. On the base, there is a rectangle whose length is equal to the base of the triangle, and width is equal to the height of the triangle. What is the total area of the shape?

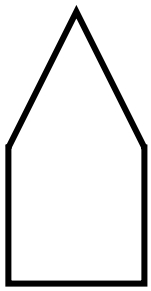


5. Total area = 54 mm² + 108 mm² = 162 mm²

45. How to calculate the area of compound shapes

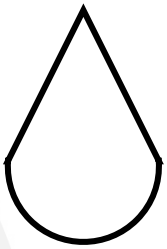
Practice Questions: Answers

6. A shape is made of a triangle with base 5 m and height 4 m. On the base, there is a rectangle whose length is equal to the base of the triangle, and width is equal to the height of the triangle. What is the total area of the shape?



6. Total area = 10 m² + 20 m² = 30 m²

7. A shape is made of a triangle with base 6 cm and height 4 cm. On the base, there is a semi-circle. What is the total area of the shape?

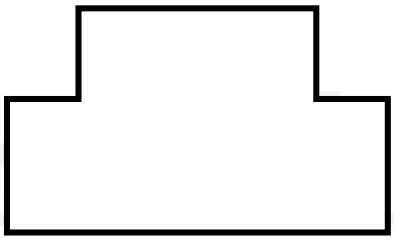


7. Total area = 12 cm² + 14.13 cm² = 26.13 cm²

8. A shape is made of a triangle with base 10 mm and height 8 mm. On the base, there is a semi-circle. What is the total area of the shape?

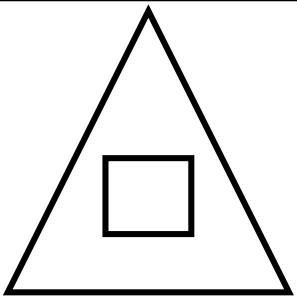
8. Total area = 40 mm² + 39.25 mm² = 79.25 mm²

9. A shape is made of a rectangle with length 7 m and width 5 m. On top is another rectangle with length 5m and width 2m, What is the total area of the shape?



9. Total area = 35 m² + 10 m² = 45 m²

10. A shape is made of a triangle with base 9 cm and height 6 cm. Cut out of the triangle is a square with side length 3 cm. What is the total area of the shape?



10. Total area = 27 cm² - 9 cm² = 18 cm²