

Area (including circles and composite shapes)

Calculate areas of rectangles, triangles, circles, and composite shapes.



Name _____

Date _____

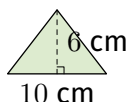
Calculate the area

Write your answer with the correct units. Show your working for each question.

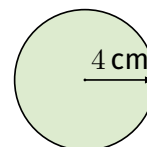
1. Rectangle: $8\text{ cm} \times 5\text{ cm}$



2. Triangle: base 10 cm , height 6 cm



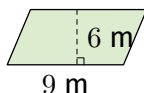
3. Circle: radius 4 cm (use $\pi = 3.14$)



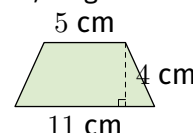
4. Square: side 7 cm



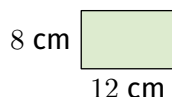
5. Parallelogram: base 9 m , height 6 m



6. Trapezium: parallel sides 5 cm and 11 cm , height 4 cm



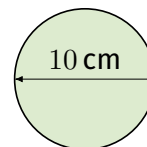
7. Rectangle: $12\text{ cm} \times 8\text{ cm}$



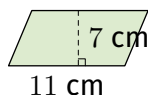
8. Triangle: base 14 m , height 8 m



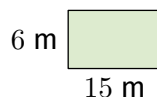
9. Circle: diameter 10 cm (use $\pi = 3.14$)



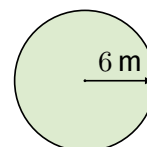
10. Parallelogram: base 11 cm , height 7 cm



11. Rectangle: $15\text{ m} \times 6\text{ m}$



12. Circle: radius 6 m (use $\pi = 3.14$)



Area (including circles and composite shapes)

Calculate areas of composites and shapes with more complex dimensions.



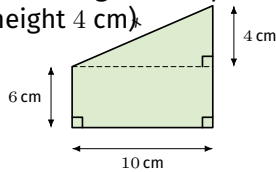
Name _____

Date _____

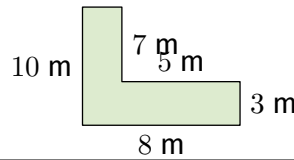
Composite shapes

Break down each shape into simpler parts. Calculate the area of each part, then combine.

- 13. Composite:** Rectangle $10\text{ cm} \times 6\text{ cm}$ with triangle on top (base 10 cm , height 4 cm)

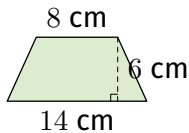


- 14. L-shape:** vertical $3\text{ m} \times 10\text{ m}$, horizontal $3\text{ m} \times 3\text{ m}$

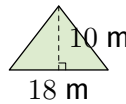


- 15. Rectangle** $16\text{ cm} \times 8\text{ cm}$ with hole radius 2 cm (use $\pi = 3.14$)

- 16. Trapezium:** parallel sides 8 cm and 14 cm , height 6 cm

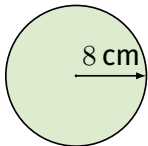


- 17. Triangle:** base 18 m , height 10 m

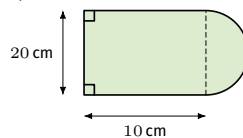


- 18. Rectangle** $12\text{ m} \times 9\text{ m}$ minus triangle (base 12 m , height 3 m)

- 19. Circle:** radius 8 cm (leave answer in terms of π)



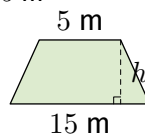
- 20. Rectangle** $20\text{ cm} \times 10\text{ cm}$ with semicircle (diameter 20 cm , use $\pi = 3.14$)



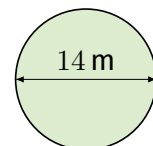
- 21. Hexagon:** rectangle $12\text{ cm} \times 8\text{ cm}$ with two triangles (each base 12 cm , height 3 cm)

- 22. Composite:** Two rectangles: $8\text{ m} \times 5\text{ m}$ and $4\text{ m} \times 7\text{ m}$

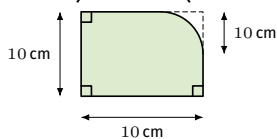
- 23. Find height of trapezium if area is 100 m^2 with parallel sides 5 m and 15 m**



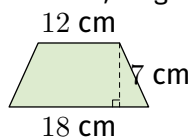
- 24. Circle:** diameter 14 m (leave answer in terms of π)



- 25. 10 cm square, quarter circle (radius 10 cm) cut out ($\pi = 3.14$)**



- 26. Trapezium:** parallel sides 12 cm and 18 cm , height 7 cm



- 27. Rectangle:** length 20 m , width 8 m

