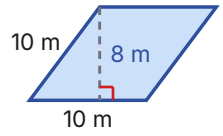
Name: _____ Date: _____

Area of Parallelograms and Trapezoids

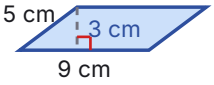
Grade 6 • 40 questions • Part A: find the area of each parallelogram. Use the height, not the slanted side

1.



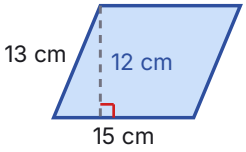
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2.



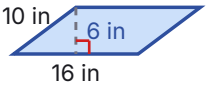
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3.



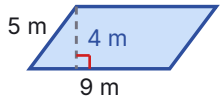
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4.



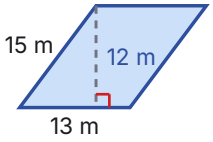
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5.



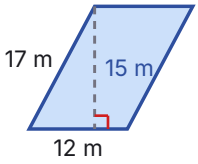
Area = _____

6.



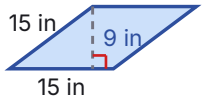
Area = _____

7.



Area = _____

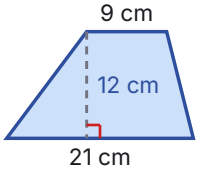
8.



Area = _____

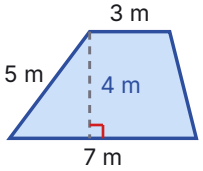
Part B • Find the area of each trapezoid

9.



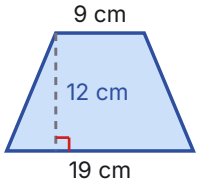
Area = _____

10.



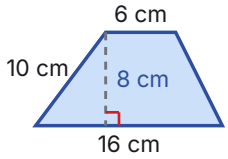
Area = _____

11.



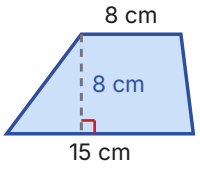
Area = _____

12.



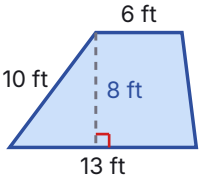
Area = _____

13.



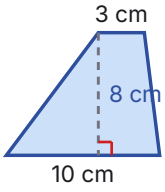
Area = _____

14.



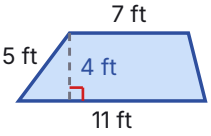
Area = _____

15.



Area = _____

16.



Area = _____

Formulas

Parallelogram: area = base × height. Trapezoid: area = (top + bottom) ÷ 2 × height.
The height is the dashed line at a right angle to the base, not the slanted side.

Name: _____ Date: _____

Area of Parallelograms and Trapezoids

Part C • Find the missing length • Part D: quick areas • Part E: problems

Part C • Find the missing length

17. Parallelogram: area 48 cm², base 8 cm. Height? _____
18. Parallelogram: area 72 m², height 6 m. Base? _____
19. Trapezoid: parallel sides 5 cm and 9 cm, area 42 cm². Height? _____
20. Trapezoid: height 4 m, one parallel side 6 m, area 32 m². Other parallel side? _____
21. Parallelogram: base 15 in, area 105 in². Height? _____
22. Trapezoid: parallel sides 7 ft and 13 ft, area 80 ft². Height? _____
23. Parallelogram: height 9 cm, area 117 cm². Base? _____
24. Trapezoid: height 10 cm, one parallel side 8 cm, area 120 cm². Other parallel side? _____

Part D • Find the area

25. Parallelogram: base 11, height 3 _____
26. Trapezoid: sides 7 and 13, height 8 _____
27. Parallelogram: base 14, height 4 _____
28. Trapezoid: sides 6 and 11, height 2 _____
29. Parallelogram: base 11, height 7 _____
30. Trapezoid: sides 6 and 12, height 2 _____
31. Parallelogram: base 7, height 11 _____
32. Trapezoid: sides 4 and 10, height 10 _____

Part E • Problems

33. A trapezoid field has parallel sides of 40 m and 60 m, 30 m apart. Its area? _____
34. A parallelogram tile has base 12 cm and height 5 cm. Area of 10 tiles? _____
35. A trapezoid garden bed: parallel sides 3 ft and 7 ft, height 4 ft. Its area? _____
36. A parallelogram: base 9 m, slanted side 5 m, height 4 m. Its area? _____
37. A trapezoid window: parallel sides 80 cm and 120 cm, height 50 cm. Its area? _____
38. Two parallelograms each have base 6 in and height 7 in. Total area? _____
39. A ramp's side is a trapezoid: parallel sides 2 ft and 5 ft, height 6 ft. Area? _____
40. A parallelogram has area 60 cm². The base doubles; the height stays. New area? _____

Answer Key — Area of Parallelograms and Trapezoids

1. $80\ m^2$
2. $27\ cm^2$
3. $180\ cm^2$
4. $96\ in^2$
5. $36\ m^2$
6. $156\ m^2$
7. $180\ m^2$
8. $135\ in^2$
9. $180\ cm^2$
10. $20\ m^2$
11. $168\ cm^2$
12. $88\ cm^2$
13. $92\ cm^2$
14. $76\ ft^2$
15. $52\ cm^2$
16. $36\ ft^2$
17. $6\ cm$
18. $12\ m$
19. $6\ cm$
20. $10\ m$
21. $7\ in$
22. $8\ ft$
23. $13\ cm$
24. $16\ cm$
25. 33
26. 80
27. 56
28. 17
29. 77
30. 18
31. 77
32. 70
33. $1{,}500\ m^2$
34. $600\ cm^2$
35. $20\ ft^2$
36. $36\ m^2$
37. $5{,}000\ cm^2$
38. $84\ in^2$
39. $21\ ft^2$
40. $120\ cm^2$