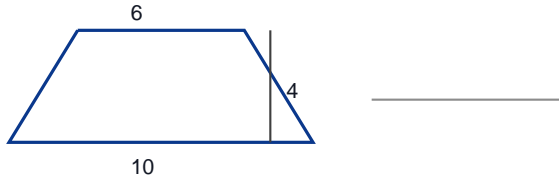


Trapezoids

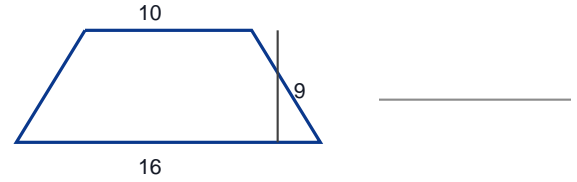
ALEKS custom practice

Find the area of each trapezoid. Use $A = (b_1 + b_2)h \div 2$.

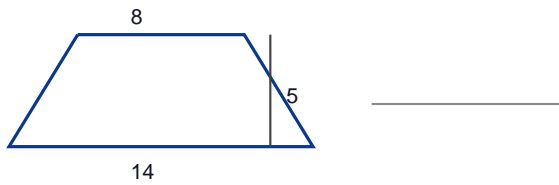
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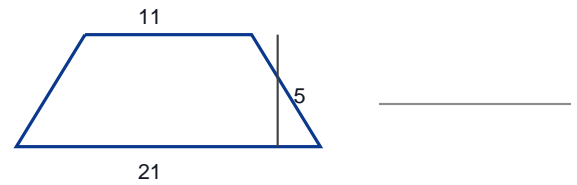
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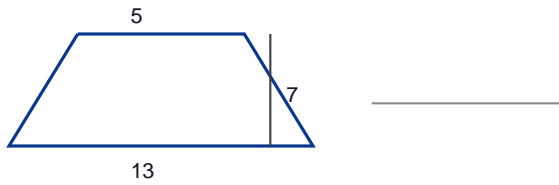
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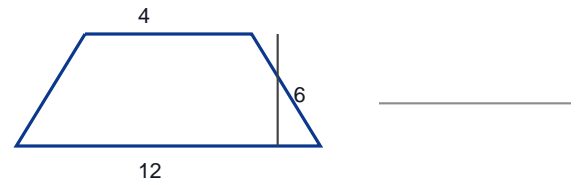
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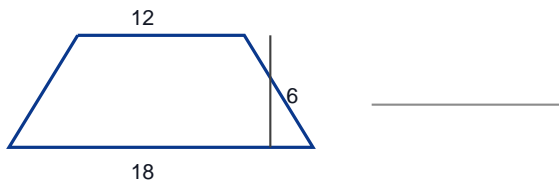
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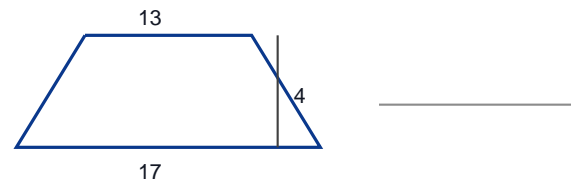
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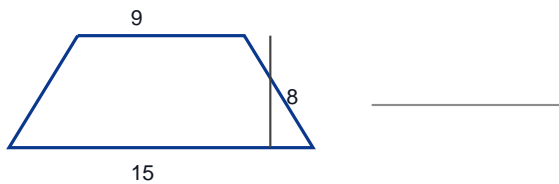
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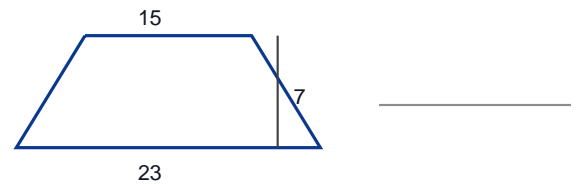
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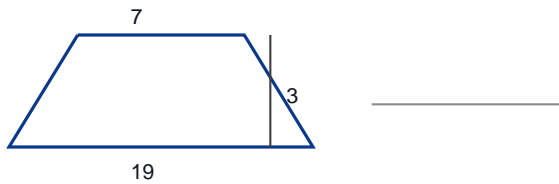
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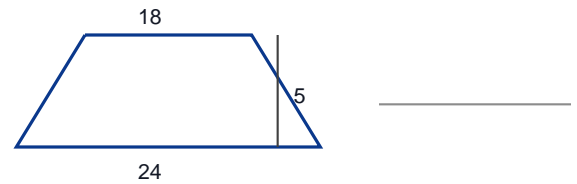
11.



6.



12.



Trapezoids

Missing measures and applications

Use the trapezoid area formula to find each missing measure.

13. $A = 72$, $b_1 = 8$, $b_2 = 16$. Find h .

17. $A = 105$, $b_1 = 9$, $b_2 = 21$. Find h .

14. $A = 90$, $b_1 = 10$, $b_2 = 20$. Find h .

18. $A = 54$, $b_1 = 5$, $h = 6$. Find b_2 .

15. $A = 84$, $b_1 = 6$, $h = 7$. Find b_2 .

19. $A = 144$, $b_1 = 14$, $b_2 = 22$. Find h .

16. $A = 120$, $b_2 = 22$, $h = 8$. Find b_1 .

20. $A = 96$, $b_2 = 18$, $h = 8$. Find b_1 .

21. A garden bed is a trapezoid with bases 12 ft and 20 ft and height 9 ft. Find the area.

22. A trapezoid tabletop has area 156 in^2 , bases 14 in and 25 in. Find the height.

23. A park sign is a trapezoid with height 6 ft and bases 7 ft and 11 ft. Find the area.

24. A trapezoid banner has area 75 ft^2 , one base 8 ft, and height 6 ft. Find the other base.

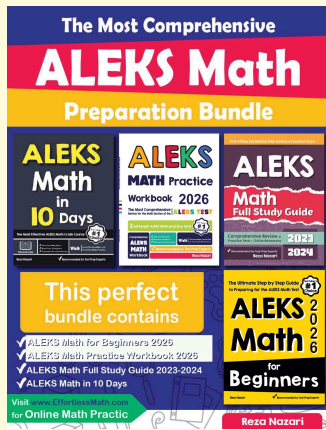
Answer Key

Trapezoids

- | | | |
|---------------------|----------------------|---------------------|
| 1. 32 square units | 9. 48 square units | 17. 7 |
| 2. 55 square units | 10. 60 square units | 18. 13 |
| 3. 63 square units | 11. 133 square units | 19. 8 |
| 4. 90 square units | 12. 105 square units | 20. 6 |
| 5. 96 square units | 13. 6 | 21. 144 square feet |
| 6. 39 square units | 14. 6 | 22. 8 inches |
| 7. 117 square units | 15. 18 | 23. 54 square feet |
| 8. 80 square units | 16. 8 | 24. 17 feet |

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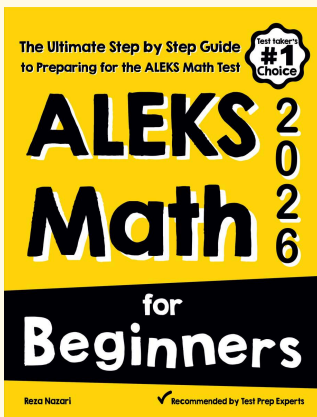
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