Area and Perimeter of Composite Figures

Name: _____	Date: _____	Score: _____ / 30

Quick Review and Helpful Hints

A *composite figure* is made of simpler shapes. Split it into rectangles and triangles, find each area, then *add* them – or *subtract* a cut-out piece. For perimeter, add the lengths of all the outside edges.

▷ **Example:** An L-shape is a 6×4 rectangle with a 2×2 square removed from a corner. Find its area. **Work:** Big rectangle $= 6 \times 4 = 24$. Removed square $= 2 \times 2 = 4$. Subtract: $24 - 4$. ★ **Answer:** 20

Split into rectangles, then add.

Practice Problems

Find each total area.

1. Rectangles 4×3 and 2×3 _____

2. Rectangle 5×4 plus square 2×2 _____

3. 6×6 square minus 2×2 _____

4. Rectangle 8×2 plus rectangle 3×2 _____

5. 10×4 minus 4×2 _____

6. Squares 3×3 and 5×5 _____

7. Rectangle 7×3 plus triangle $b = 4, h = 3$ _____

8. Square 5×5 plus rectangle 5×2 _____

9. 12×3 minus 2×3 _____

10. Rectangle 6×5 plus 6×1 _____

11. Square 4×4 plus triangle $b = 4, h = 2$ _____

12. 9×4 minus 3×4 _____

13. Rectangle 10×2 plus 4×2 _____

14. Rectangles 5×2 and 5×3 _____

Word Problems

15. A patio is an 8×5 rectangle with a 2×2 planter removed. Find the patio's area. _____

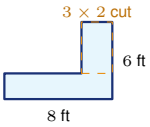
16. An L-shaped room is a 6×4 rectangle plus a 4×3 rectangle. Find its total area. _____

17. A figure is a 10×6 rectangle minus a 4×3 cut-out. Find its area. _____

18. A sign is a 5×4 rectangle with a triangle ($b = 5, h = 2$) on top. Find its total area. _____

Illustrated Practice

Split each picture into simple shapes. Add areas, or subtract cut-outs.



19. Find the patio area.

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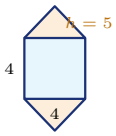

25. A logo has a square and two triangles. Find the total area.

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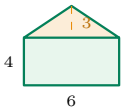

20. A sign has a rectangle and triangle. Find the total area.

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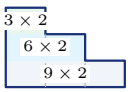

26. Each stair layer is 2 units high. The layer widths are 9, 6, and 3. Find the area.

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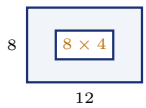

21. Find the frame area.

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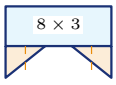

27. The rectangle is 8×3. Each triangular tail has $b = 3$ and $h = 2$. Find the total area.

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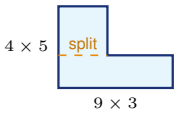

22. Use the dashed line to split the L-shape into two rectangles. Find the total area.

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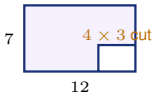

28. Find the area after the cut-out.

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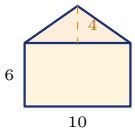

23. Find the house-front area.

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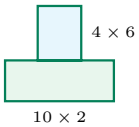

29. Find the area of the T-shape.

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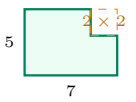

24. Find the shaded area.

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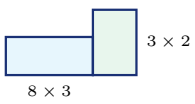

30. Add the two rectangles. Find the total area.

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Answer Keys

1. 18	**11.** 20	**21.** 64
2. 24	**12.** 24	**22.** 47
3. 32	**13.** 28	**23.** 80
4. 22	**14.** 25	**24.** 31
5. 32	**15.** 36	**25.** 36
6. 34	**16.** 36	**26.** 36
7. 27	**17.** 48	**27.** 30
8. 35	**18.** 25	**28.** 72
9. 30	**19.** 42	**29.** 44
10. 36	**20.** 33	**30.** 30

Step-by-Step Explanations

1. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $4 \times 3 = 12$ and $2 \times 3 = 6$; total $12 + 6 = 18$. So the final answer is 18.

2. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $5 \times 4 = 20$ plus $2 \times 2 = 4$; total 24. So the final answer is 24.

3. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $36 - 4 = 32$. So the final answer is 32.

4. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $8 \times 2 = 16$ plus $3 \times 2 = 6$; total 22. So the final answer is 22.

5. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $40 - 8 = 32$. So the final answer is 32.

6. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $9 + 25 = 34$. So the final answer is 34.

7. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is 21 plus $\frac{1}{2}(4)(3) = 6$; total 27. So the final answer is 27.

8. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is 25 plus 10; total 35. So the final answer is 35.

9. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $36 - 6 = 30$. So the final answer is 30.

10. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is 30 plus 6; total 36. So the final answer is 36.

11. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is 16 plus $\frac{1}{2}(4)(2) = 4$; total 20. So the final answer is 20.

12. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $36 - 12 = 24$. So the final answer is 24.

13. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is 20 plus 8; total 28. So the final answer is 28.

14. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $10 + 15 = 25$. So the final answer is 25.

15. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $8 \times 5 = 40$ minus 4; total 36. So the final answer is 36.

16. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $24 + 12 = 36$. So the final answer is 36.

17. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $60 - 12 = 48$. So the final answer is 48.

18. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is 20 plus $\frac{1}{2}(5)(2) = 5$; total 25. So the final answer is 25.

19. Think of the patio as a big 8×6 rectangle with a 3×2 corner removed. The area is $48 - 6 = 42$.

20. Find each part of the sign: the rectangle is $6 \cdot 4 = 24$, and the triangle is $\frac{1}{2}(6)(3) = 9$. Add them for 33.

21. A frame is an outer area minus an inner opening. The outside is $12 \cdot 8 = 96$ and the opening is $8 \cdot 4 = 32$, so the frame area is 64.

22. Split the L-shape into two non-overlapping rectangles. Their areas are $9 \cdot 3 = 27$ and $4 \cdot 5 = 20$, so the total is 47.

23. The house front has a rectangle and a triangle. The rectangle is $10 \cdot 6 = 60$ and the triangle is $\frac{1}{2}(10)(4) = 20$, so the total is 80.

24. Start with the 7×5 rectangle, then remove the 2×2 missing corner. $35 - 4 = 31$.

25. The logo has a 4×4 square and two matching triangles. The square is 16, and the triangles together are $2\left(\frac{1}{2}(4)(5)\right) = 20$, so the total is 36.

26. Add the three rectangular steps: $9 \cdot 2 + 6 \cdot 2 + 3 \cdot 2 = 18 + 12 + 6 = 36$.

27. The banner has a rectangle plus two triangles. The rectangle is $8 \cdot 3 = 24$, and the two triangles together add 6, so the total is 30.

28. Use subtraction for the cut-out: the whole rectangle is $12 \cdot 7 = 84$, and the missing piece is $4 \cdot 3 = 12$. The remaining area is 72.

29. The T-shape is made from two rectangles. Add $10 \cdot 2 = 20$ and $4 \cdot 6 = 24$ to get 44.

30. Add the two labeled rectangles: $8 \cdot 3 = 24$ and $3 \cdot 2 = 6$. The total area is 30.

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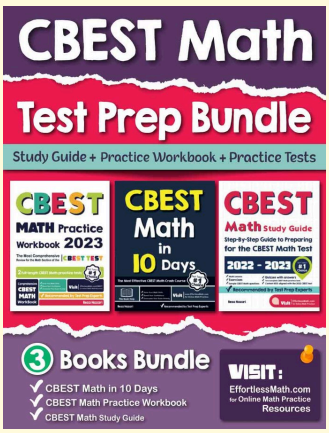

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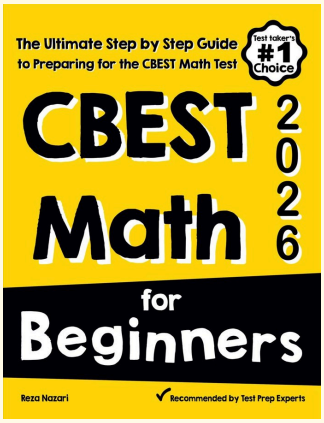

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