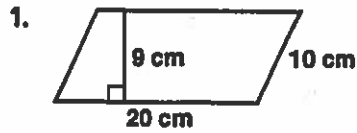
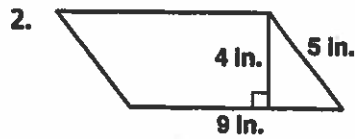


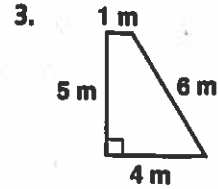
Practice 7-6

Areas of Polygons

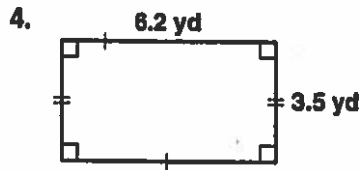
Find the area of each parallelogram or trapezoid.

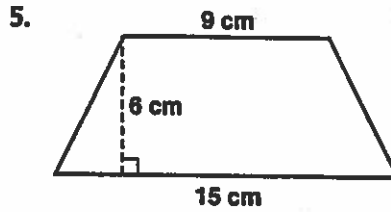


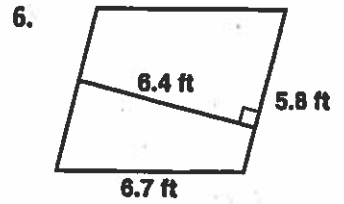




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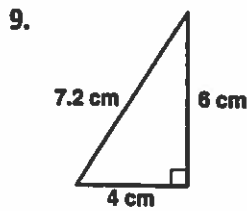


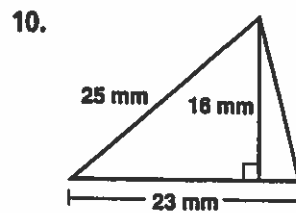


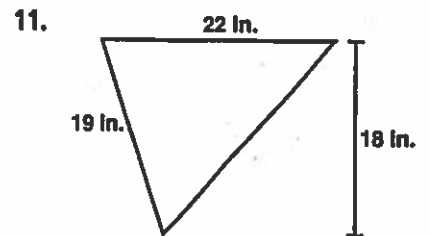
7. The area of a parallelogram is 221 yd^2 . Its height is 13 yd. What is the length of its corresponding base?

8. The area of a parallelogram is 116 cm^2 . Its base is 8 cm. What is the corresponding height?

Find the area of each triangle.







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Puzzle 7-6

Areas of Polygons

Find the missing value for each figure described. Use the letters of the correct answers to solve the puzzle at the bottom of the page.

Formula Box

The areas of a parallelogram can be found by the formula $A = bh$.

The area of a trapezoid can be found by the formula $A = \frac{1}{2}h(b_1 + b_2)$.

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- | | | | |
|--|--------------|--------------|--------------|
| 1. trapezoid: $b_1 = 8; b_2 = 10; h = 7$ | A. $A = 560$ | B. $A = 280$ | C. $A = 63$ |
| 2. trapezoid: $b_1 = 7; b_2 = 9; A = 48$ | A. $h = 6$ | B. $h = 7$ | C. $h = 8$ |
| 3. trapezoid: $b_2 = 12; h = 3; A = 24$ | A. $b_1 = 2$ | B. $b_1 = 3$ | C. $b_1 = 4$ |
| 4. parallelogram: $b = 9; h = 7$ | S. $A = 56$ | T. $A = 63$ | U. $A = 72$ |
| 5. parallelogram: $h = 3; A = 36$ | S. $b = 8$ | T. $b = 10$ | U. $b = 12$ |
| 6. parallelogram: $b = 8; A = 48$ | S. $h = 6$ | T. $h = 7$ | U. $h = 8$ |

The world's largest _____ plantation is found

1 2 3 4 5 6

in Edwards, Mississippi.

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