

Push Tasks

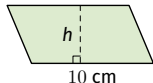


Work backwards from the area to find a missing measurement, or explain your reasoning.

1. A parallelogram has area 96 cm^2 and base 12 cm . Find its perpendicular height.

3. A triangle has area 60 cm^2 and base 15 cm . Find its perpendicular height.

2.



This parallelogram has area 85 cm^2 . Find h .

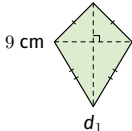
4. A kite has area 60 cm^2 . One diagonal is 15 cm . Find the other diagonal.

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Work backwards from the area to find a missing measurement, or explain your reasoning.

5.



This kite has area 54 cm^2 . Find d_1 .

7. A square has side 6 cm and a rectangle has sides 4 cm and 9 cm. Explain why these two shapes have the same area even though they look different.

6. A square has area 121 cm^2 . Find its side length.

8. A triangle and a parallelogram share the same base of 10 cm and the same perpendicular height of 6 cm. Use the area formulas to explain how their areas compare.

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Work backwards from the area to find a missing measurement, or explain your reasoning.

9. A parallelogram has base b and height h . If the base is doubled and the height is halved, what happens to the area? Justify your answer using the area formula.

11. A rectangle has area 108 cm^2 and length 12 cm . Find its width.

10. A kite's diagonals are in the ratio $3 : 2$. The longer diagonal is 18 cm . Find the area of the kite.

12.



This rectangle has area 54 cm^2 . Find w .