



SUBJECT – MATHEMATICS

GRADE – 6 Chapter 8 – Lesson 3 Area of Trapezoids

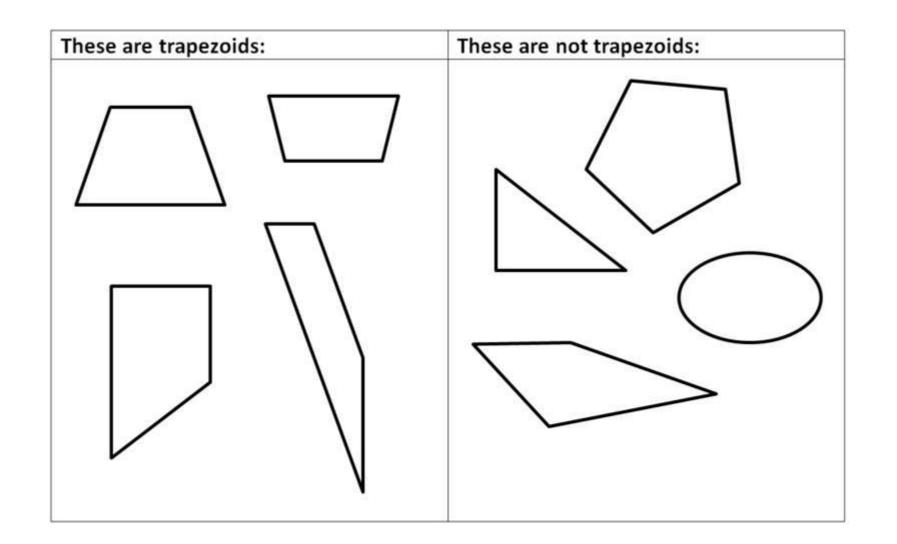




Vocabulary:

☐ Area

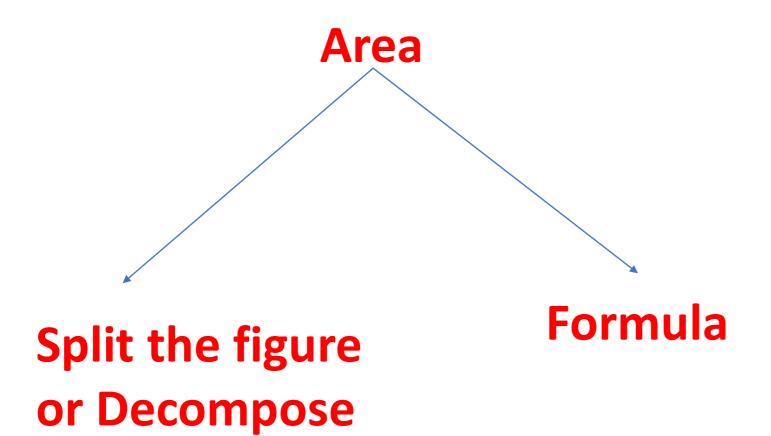
Trapezoids A quadrilateral with at least one pair of parallel sides





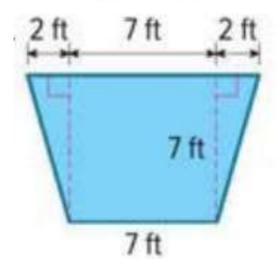
Objective of Session

To find the area of Trapezoids



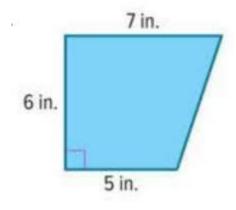


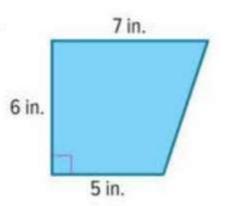
Decompose each trapezoid to find its area.





Decompose each trapezoid to find its area.

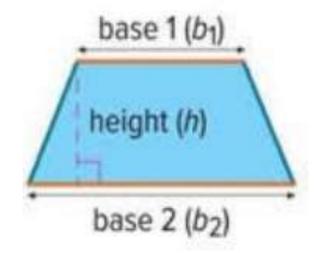






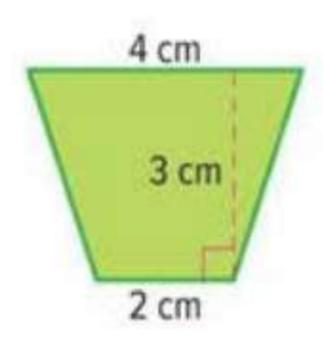


| Words | Symbols | |
|--|-------------------------------|--|
| The area of a trapezoid is one half the product of the height, h , and the sum of its bases, b_1 and b_2 | $A = \frac{1}{2}h(b_1 + b_2)$ | |



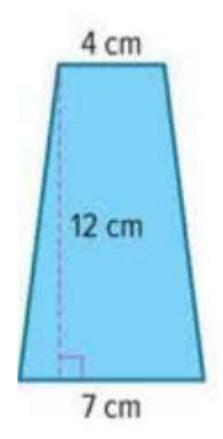


Find the area of the trapezoid.





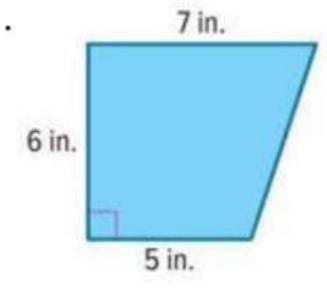
Find the area of each trapezoid.







Find the area of each trapezoid.







How to find the missing dimension of trapezoid

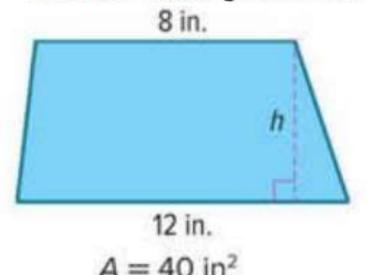
$$Height = \frac{2 x Area}{(b1+b2)}$$

Base 1 (b1) =
$$\frac{2 x Area}{h} - b2$$

Base 2 (b2) =
$$\frac{2 x Area}{h} - b1$$



Find the missing dimension of the trapezoid.





Find the missing dimension of the trapezoid.

