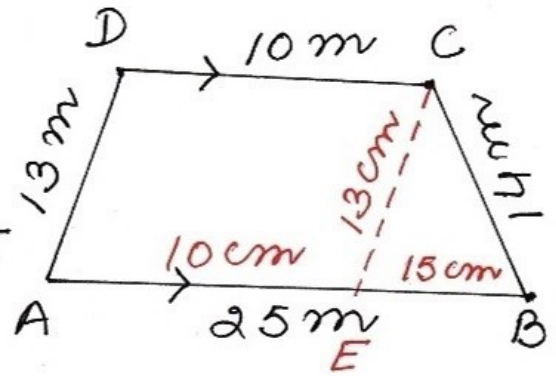


9. construction:
draw $CE \parallel DA$
intersecting AB at E



Solution: $\square AECD$ is a $\parallel gm$ ($DC \parallel AE$
 $CE \parallel DA$)

$$AE = DC = 10 \text{ cm}$$

$$CE = DA = 13 \text{ cm}$$

$$\begin{aligned} BE &= AB - AE \\ &= 25 - 10 \\ &= 15 \text{ cm} \end{aligned}$$

$\triangle CEB$

$$s = \frac{13 + 14 + 15}{2}$$

$$= \frac{42}{2}$$

$$= 21 \text{ cm}$$

$$\text{area of } \triangle CEB = \sqrt{21(21-13)(21-14)(21-15)}$$

$$= \sqrt{21 \times 8 \times 7 \times 6}$$

$$= \sqrt{3 \times 7 \times 2 \times 2 \times 2 \times 7 \times 2 \times 3}$$

$$= 2 \times 2 \times 3 \times 7$$

$$= 84 \text{ cm}^2$$