



Assignment

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Date: / /

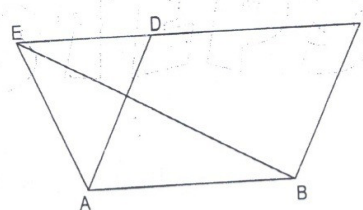
Name: _____

Max Marks: 20

Section- A (One Marks Each)

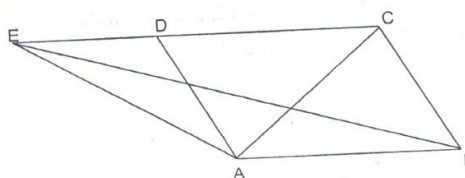
1 ABCD is a parallelogram and CD is produced to E. if $ar(ABCD) = 24cm^2$, find $ar(\Delta EAB)$.

- a) $12cm^2$
- b) $24cm^2$
- c) $48cm^2$
- d) $6cm^2$



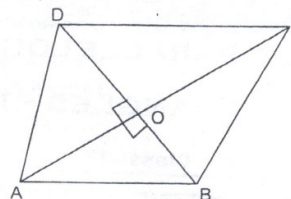
2 ABCD is parallelogram and CD is produced to E. if $ar(\Delta ABC) = 19cm^2$, find $ar(\Delta EAB)$.

- a) $\frac{19}{2} cm^2$
- b) $38cm^2$
- c) $19cm^2$
- d) $\frac{19}{4} cm^2$



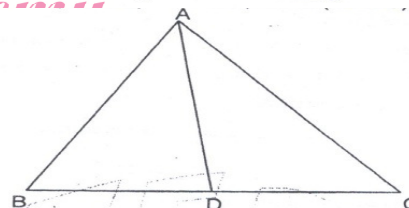
3 ABCD is a quadrilateral and $AB \parallel CD$. If $ar(\Delta ABC) = 144cm^2$ and $DB = 24cm$, find the altitude of ΔADB .

- a) 6cm
- b) 12cm
- c) 72cm
- d) 48cm



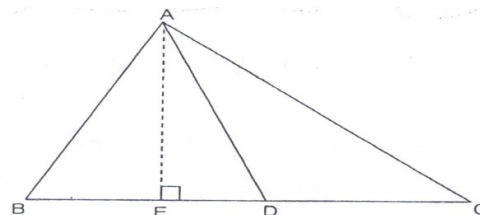
4 AD is the median of ΔABC . If $ar(\Delta ADC) = 12cm^2$, find $ar(\Delta ABC)$.

- a) $12cm^2$
- b) $48cm^2$
- c) $24cm^2$
- d) $144cm^2$



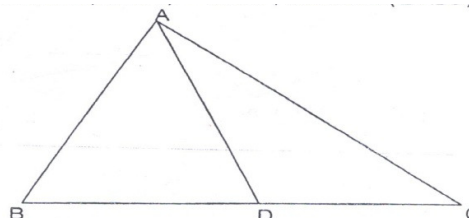
5 AD is the median of ΔABC . If $DC = 8cm$ and $ar(\Delta ADC) = 48cm^2$, find the altitude of ΔABD .

- a) 6cm
- b) 3cm
- c) 12cm
- d) 24cm



6 AD is the median of ΔABC . If $ar(\Delta ADC) = 12cm^2$, find the $ar(\Delta ABD)$.

- a) $24cm^2$
- b) $12cm^2$
- c) $6cm^2$
- d) $14cm^2$



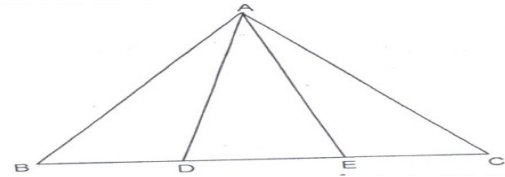
Section-B (Two Marks Each)

7 E is the mid-point of median AD, show that $ar(\Delta BED) = \frac{1}{4} ar(\Delta ABC)$.

- 8 Diagonals AC and BD of parallelogram ABCD perpendicularly bisect each other at P. Show that $\text{ar}(\Delta ADP) = \text{ar}(\Delta APB)$.

Section-C (Three Marks Each)

- 9 In the given figure, D and E are two points on BC such that $BD = DE = EC$. Show that $\text{ar}(\Delta ABD) = \text{ar}(\Delta ADE) = \text{ar}(\Delta AEC)$.



- 10 In ΔABC , if a point D divides BC in the ratio 2:3, show that $\text{ar}(\Delta ACD) = 2:3$.

Section-D (Four Marks Each)

- 11 In the given figure, $\text{ar}(\Delta DRC) = \text{ar}(\Delta DPC)$ and $\text{ar}(\Delta BDP) = \text{ar}(\Delta ARC)$. Show that both the quadrilaterals ABCD and DCPR are trapeziums.

