Median and Centroid
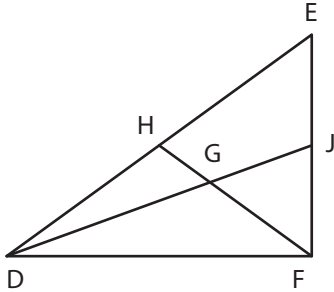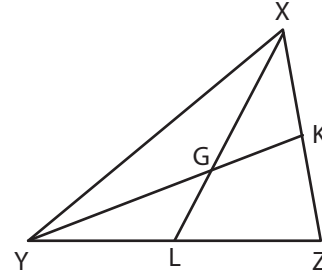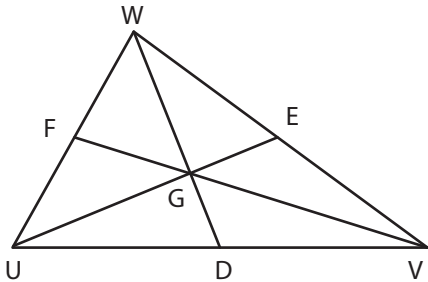
1) $\overline{DJ}$ and $\overline{FH}$ are medians of triangle DEF. If FH = 8.1 and JG = 4, find DJ and FG.
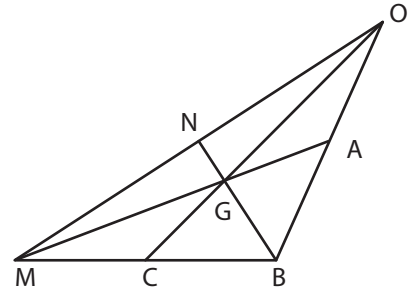

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2) $\overline{YK}$ and $\overline{XL}$ are medians of triangle XYZ. Find LG and YG, if XL = 18 and KG = 8
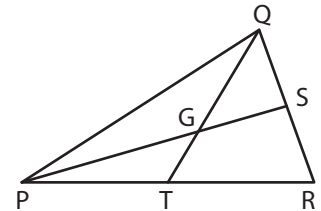

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3) The triangle UVW with medians $\overline{UE}, \overline{VF}$ and $\overline{WD}$. Find VF, WG and EG if VG = 8, GD = 2 and UE = 9.3.
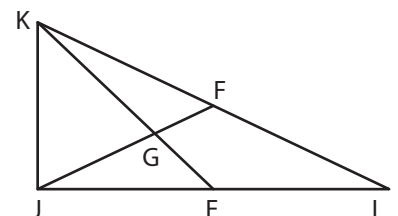

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4) The triangle MOB whose medians $\overline{MA}, \overline{BN}$ and $\overline{OC}$. If BN = 6, MG = 3.7 and OG = 9, find OC, BG and AG.

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5) $\overline{PS}$ and $\overline{QT}$ are the medians of the triangle PQR. If SG = (x + 2.5) and PG = (12.5 − x), find the value of x.

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6) $\overline{JF}$ and $\overline{KE}$ are the medians of the triangle JKL. If KG = (x − 1) and KE = (2x − 5), find the value of x and EG.
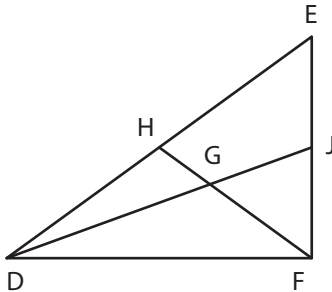
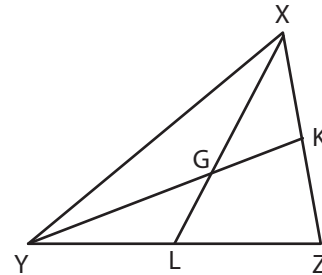

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Name _____

Score _____

Answer key

MC:21

1) $\overline{DJ}$ and $\overline{FH}$ are medians of triangle DEF. If FH = 8.1 and JG = 4, find DJ and FG.
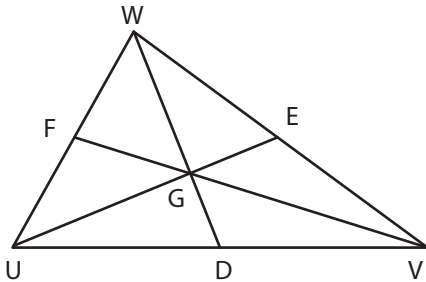

DJ = 12 ; FG = 5.4

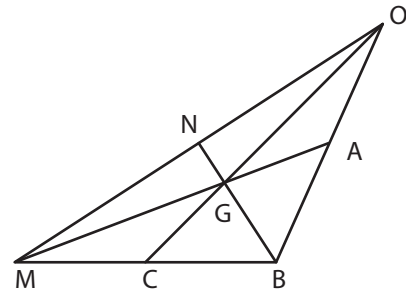2) $\overline{YK}$ and $\overline{XL}$ are medians of triangle XYZ. Find LG and YG, if XL = 18 and KG = 8

LG = 6 ; YG = 16

3) The triangle UVW with medians $\overline{UE}$, $\overline{VF}$ and $\overline{WD}$. Find VF, WG and EG if VG = 8, GD = 2 and UE = 9.3.
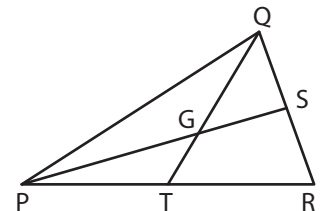

VF = 12 ; WG = 4 ; EG = 3.1

4) The triangle MOB whose medians $\overline{MA}$, $\overline{BN}$ and $\overline{OC}$. If BN = 6, MG = 3.7 and OG = 9, find OC, BG and AG.
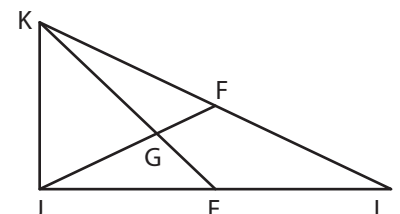

OC = 13.5 ; BG = 4 ; AG = 7.4

5) $\overline{PS}$ and $\overline{QT}$ are the medians of the triangle PQR. If SG = (x + 2.5) and PG = (12.5 – x), find the value of x.

x = 2.5

6) $\overline{JF}$ and $\overline{KE}$ are the medians of the triangle JKL. If KG = (x – 1) and KE = (2x – 5), find the value of x and EG.

x = 7 ; EG = 3