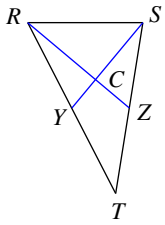


Medians and a centroid

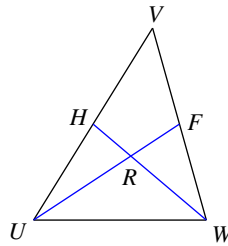
© 2012 Kuta Software LLC. All rights reserved.

Each figure shows a triangle with one or more of its medians.

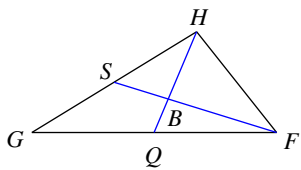
1) Find CY if $SY = 33$



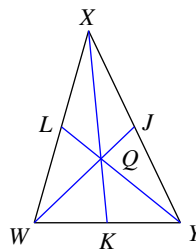
2) Find WR if $RH = 2$



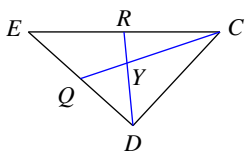
3) Find HQ if $HB = 4.8$



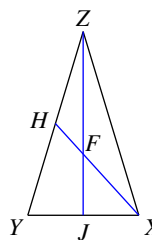
4) Find QJ if $WQ = 5$



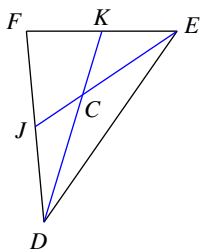
5) Find DY if $DR = 16.5$



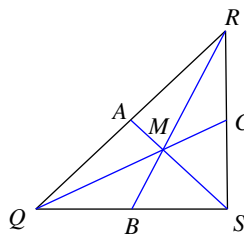
6) Find FJ if $ZF = 6$



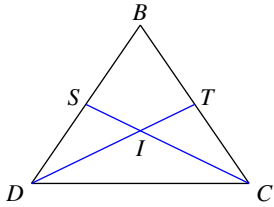
7) Find DK if $CK = 12$



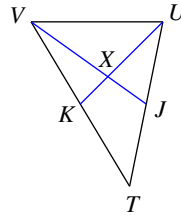
8) Find QM if $MC = 7$



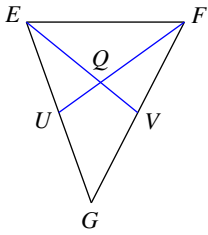
9) Find CI if $CS = 6$



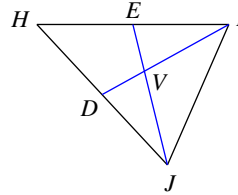
10) Find XK if $UX = 8$



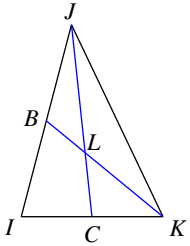
11) Find x if $EQ = x + \frac{4}{5}$ and $EV = \frac{8}{5}x + \frac{1}{10}$



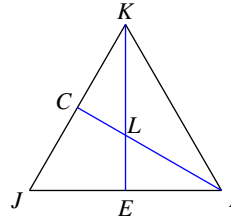
12) Find x if $JV = 3x - 6$ and $VE = 2x - 7$



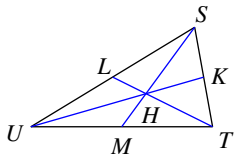
13) Find x if $KL = 4x - 8$ and $KB = 3x + 12$



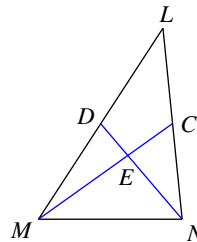
14) Find x if $KL = 7x + 1$ and $LE = 2x + 5$



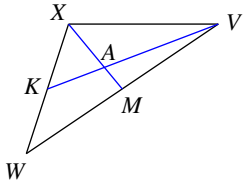
15) Find x if $SM = 2x + 2$ and $HM = 2x - 2$



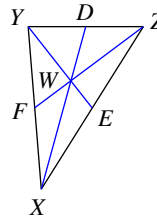
16) Find x if $NE = x + 4$ and $ND = 2x$



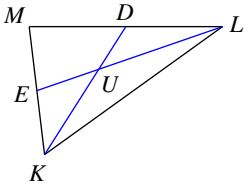
17) Find x if $VA = x + 4$ and $AK = x - 1$



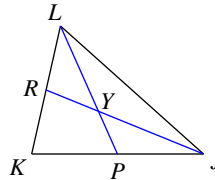
18) Find x if $ZW = -6 + 2x$ and $WF = 2x - 9$



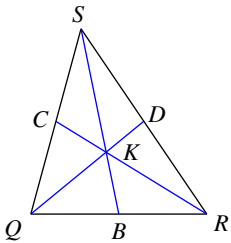
19) Find x if $KD = x$ and $UD = -8 + x$



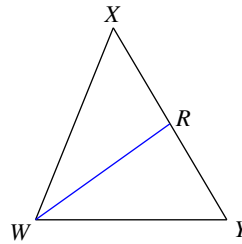
20) Find x if $LY = 4x$ and $LP = 5x + 1$



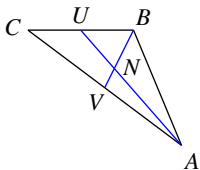
21) Find CS if $CQ = \frac{2x - 9}{2}$ and $CS = \frac{1 + x}{2}$



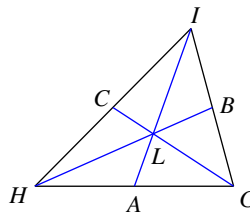
22) Find RY if $YX = x - 2$ and $RX = x - 7$



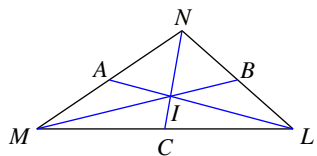
23) Find AN if $AN = x + 4$ and $NU = \frac{2x - 1}{2}$



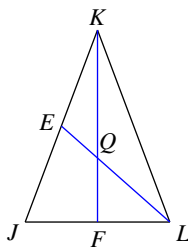
24) Find HL if $HL = 3x + 1$ and $HB = 7x - 1$



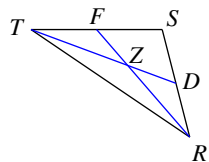
25) Find MI if $MB = x + 9$ and $IB = 2x - 7$



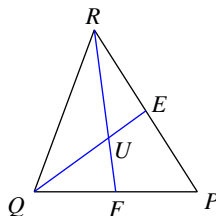
26) Find LQ if $LQ = x - 6$ and $QE = x - 8$



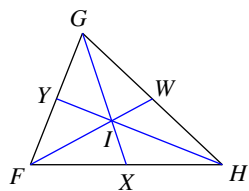
27) Find ZD if $TZ = 2x - 6$ and $TD = x + 9$



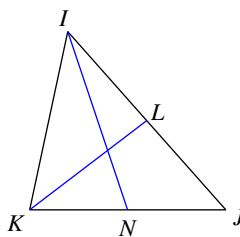
28) Find QE if $QU = x - 4$ and $UE = x - 8$



29) Find IW if $FW = 10x$ and $IW = 2x + 4$



30) Find NK if $NJ = \frac{2x - 3}{4}$ and $NK = \frac{x}{4}$



Answers to Medians and a centroid

1) 11

5) 11

9) 4

13) 8

17) 6

21) $\frac{11}{2}$

25) 10

29) 10

2) 4

6) 3

10) 4

14) 3

18) 6

22) 5

26) 4

30) 0.75

3) 7.2

7) 36

11) 11

15) 2

19) 12

23) 9

27) 6

4) 2.5

8) 14

12) 8

16) 12

20) 1

24) 4

28) 12