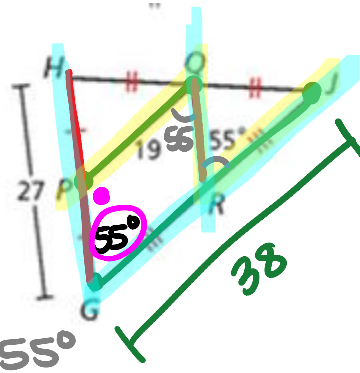


Key

Find each measure.

11. GJ 38
13. RJ 19
15. $m\angle HGJ$ 55°

12. RQ 13.5
14. $m\angle PQR$ 55°
16. $m\angle GPQ$ 125°



11. $GJ = 2(PQ)$
 $GJ = 2(19)$
 $GJ = 38$
12. $HG = 2(RQ)$
 $\frac{27}{2} = \frac{2(RQ)}{2}$
 $13.5 = RQ$

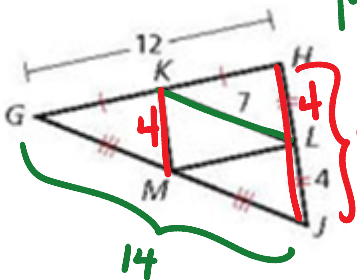
13. $RJ = \frac{1}{2}(GJ)$
 $RJ = \frac{1}{2}(38)$
 $RJ = 19$

14. $m\angle PQR = 55^\circ$
(b/c alt. int $\angle s \cong$)
15. $m\angle HGJ = 55^\circ$
(b/c corr $\angle s \cong$)

16. $m\angle GPQ = 125^\circ$
(b/c same side int $\angle s$ are supp)

$\triangle KLM$ is the midsegment triangle of $\triangle GHJ$.

18. What is the perimeter of $\triangle GHJ$ = 34

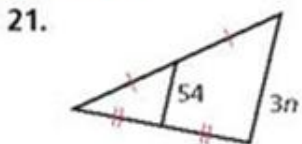


1st $GJ = 2(KL)$
 $GJ = 2(7)$
 $GJ = 14$

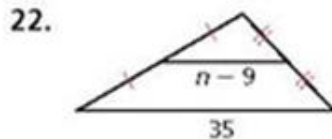
2nd If $LJ = 4$,
then $HJ = 4$,
so $HJ = 8$
 $HJ = 2(KM)$
 $\frac{8}{2} = \frac{2(KM)}{2}$
 $4 = KM$

3rd Perimeter $\triangle GHJ$
 $12 + 14 + 8$
34 units

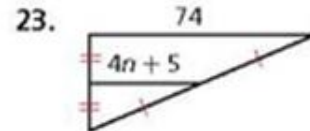
x² Algebra Find the value of n in each triangle.



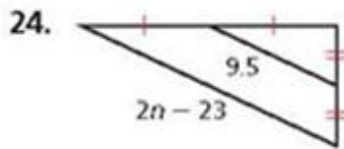
$3n = 2(54)$
 $3n = 108$
 $n = 36$



$35 = 2(n-9)$
 $35 = 2n - 18$
 $53 = 2n$
 $26.5 = n$



$74 = 2(4n+5)$
 $74 = 8n + 10$
 $64 = 8n$
 $8 = n$

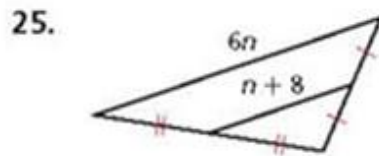


$$2n - 23 = 2(9.5)$$

$$2n - 23 = 19$$

$$2n = 42$$

$$\boxed{n = 21}$$

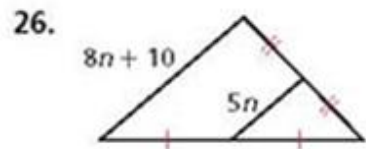


$$6n = 2(n + 8)$$

$$6n = 2n + 16$$

$$4n = 16$$

$$\boxed{n = 4}$$



$$8n + 10 = 2(5n)$$

$$8n + 10 = 10n$$

$$10 = 2n$$

$$\boxed{5 = n}$$