Key

Math 1

Name_____

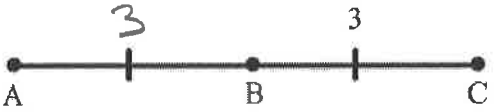
Date_____

# 6-3 Vocabulary Applications

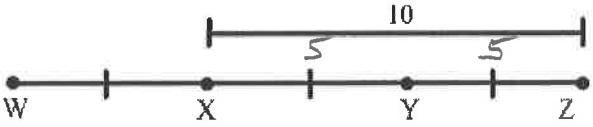
1. Give another name for $\overline{AB}$. $\overline{BA}$


2. Give another name for $\overline{FG}$. $\overrightarrow{FH}$


3. What is the length of $\overline{AC}$? 6




4. What is the length of $\overline{WX}$? 5

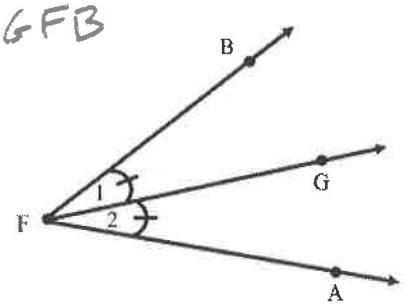



5. Give another name for angle 1. $\angle BFG$ or $\angle GFB$

6. Give another name for angle 2. $\angle GFA$

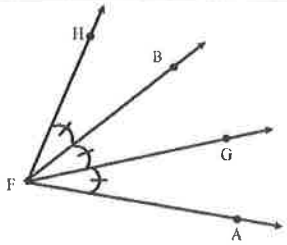
7. $\overline{FG}$ is a bisector of $\angle AFB$.

8. If the measure of angle 1 is 37°, then what is the measure of $\angle BFA$? $37 \cdot 2 = 74°$

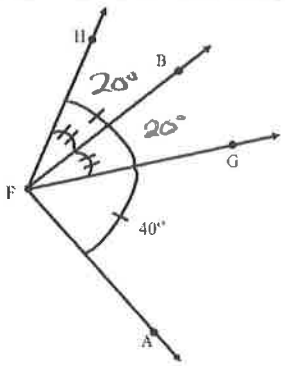



9. If the $m\angle AFH = 86°$, then what is the $m\angle HFB$? $28.\overline{6}°$

$\frac{86}{3}$




10. What is the $m\angle BFG$? 20°



11. Give another name for $\overline{AR}$. $\overrightarrow{RA}$


12. Give another name for $\overrightarrow{MX}$. $\overrightarrow{MB}$


**For numbers 13-15, sketch the given situation.**

13. Point D is between points R and S on line *m*.


14. $\overline{SR}$

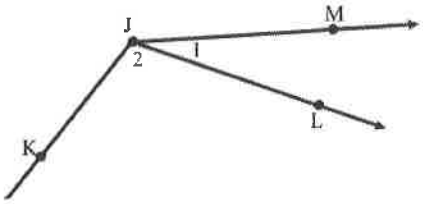

15. $\overline{PQ}$ intersects line *n* at point Q.


**For numbers 16-18, give another name for each angle.**

16. $\angle 1$ $\angle MJL$

17. $\angle 2$ $\angle KJL$

18. $\angle MJK$ $\angle KJM$




**For numbers 19-24, use the diagram to the right.**

19. Find $m\angle FAE$. $25°$

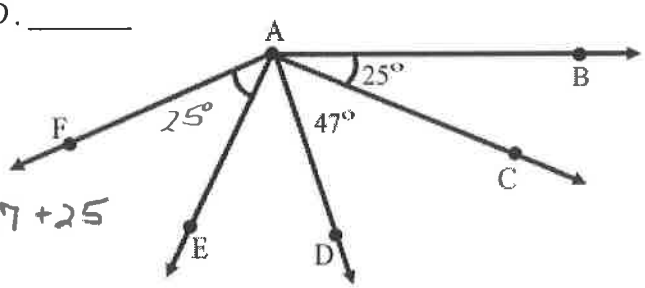
20. Find $m\angle EAD$. _____

21. If $m\angle EAD = 53°$, find $m\angle FAD$. $78°$

22. If $\angle EAD \cong \angle CAD$, find $m\angle FAB$. $144°$

23. If $m\angle EAD = 37°$, find $m\angle EAB$. $109°$ $= 37 + 47 + 25$

★24. If $m\angle EAD = 83°$, find $m\angle FAB$. $180°$




25. In the diagram to the right, $m\angle BCE = 144°$.

a. Find the value of *x*. $20$

b. Find $m\angle BCD$. $72°$

c. Find $m\angle ECD$. $72°$

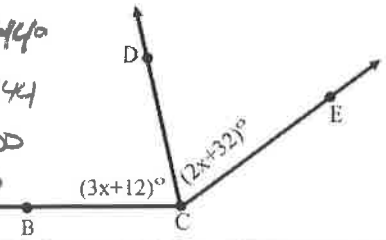
d. Does $\overline{CD}$ bisect $\angle BCE$? Yes!

$3x + 12 + 2x + 32 = 144$

$5x + 44 = 144$

$5x = 100$

$x = 20$




26. a. $\overline{AB}$ is a segment with midpoint M. $AM = 3x + 7$ and $MB = x + 9$, solve for *x*. $1$

b. What is the length of $\overline{AB}$? $20$ units

$3x + 7 = x + 9$

$2x = 2$

$x = 1$

$\overline{AM} = 3(1) + 7 = 10$

$\times 2$

$20$