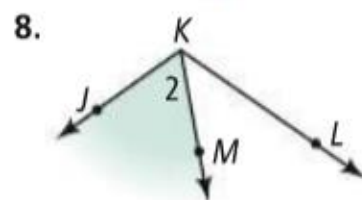
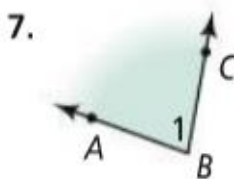
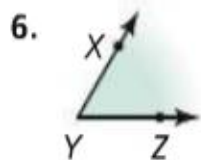


**DAY 2 - 14 HOMEWORK**  
 PAGE 31 #7-8, 15-21 ODD, 22, 28-30  
 PAGE 38 #26-30 EVEN

Name each shaded angle in three different ways.



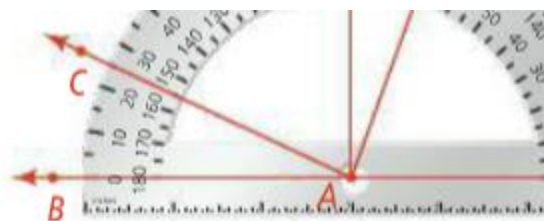
See Pro

Draw a figure that fits each description.

15. an obtuse angle,  $\angle RST$

16. an acute angle,  $\angle GHJ$

17. a straight angle,  $\angle KLM$



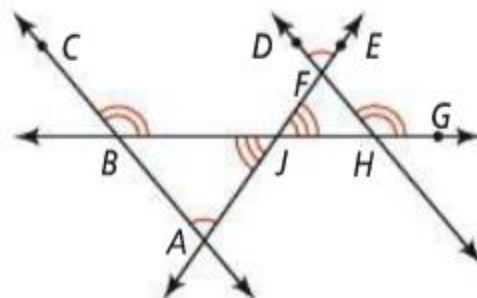
Use the diagram below. Complete each statement.

18.  $\angle CBJ \cong \blacksquare$

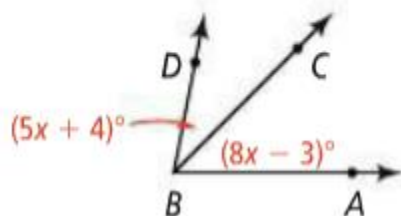
19.  $\angle FJH \cong \blacksquare$

20. If  $m\angle EFD = 75$ , then  $m\angle JAB = \blacksquare$ .

21. If  $m\angle GHF = 130$ , then  $m\angle JBC = \blacksquare$ .



22. If  $m\angle ABD = 79$ , what are  $m\angle ABC$  and  $m\angle DBC$ ?





**28. Think About a Plan** A pair of earrings has blue wedges that are all the same size. One earring has a  $25^\circ$  yellow wedge. The other has a  $14^\circ$  yellow wedge. Find the angle measure of a blue wedge.

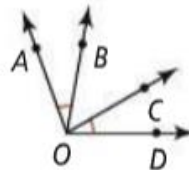
- How do the angle measures of the earrings relate?
- How can you use algebra to solve the problem?



**Algebra** Use the diagram at the right for Exercises 29 and 30. Solve for  $x$ . Find the angle measures to check your work.

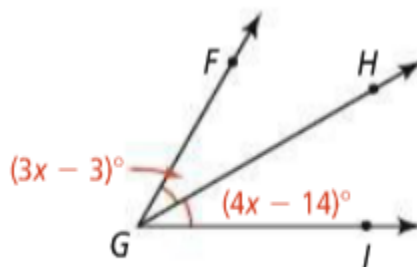
29.  $m\angle AOB = 4x - 2$ ,  $m\angle BOC = 5x + 10$ ,  $m\angle COD = 2x + 14$

30.  $m\angle AOB = 28$ ,  $m\angle BOC = 3x - 2$ ,  $m\angle AOD = 6x$



**26. Algebra** In the diagram,  $\overrightarrow{GH}$  bisects  $\angle FGI$ .

- Solve for  $x$  and find  $m\angle FGH$ .
- Find  $m\angle HGI$ .
- Find  $m\angle FGI$ .



**Algebra**  $\overrightarrow{BD}$  bisects  $\angle ABC$ . Solve for  $x$  and find  $m\angle ABC$ .

27.  $m\angle ABD = 5x$ ,  $m\angle DBC = 3x + 10$

28.  $m\angle ABC = 4x - 12$ ,  $m\angle ABD = 24$

29.  $m\angle ABD = 4x - 16$ ,  $m\angle CBD = 2x + 6$

30.  $m\angle ABD = 3x + 20$ ,  $m\angle CBD = 6x - 16$