

pp. 274-275 (#5, 7, 8-10, 14, 16, 21-24, 26, 30)

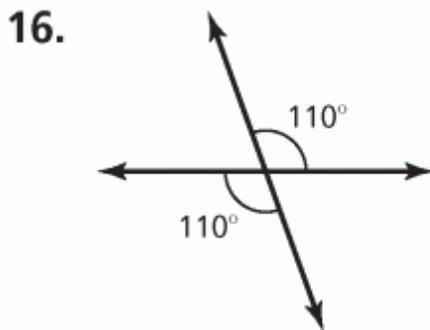
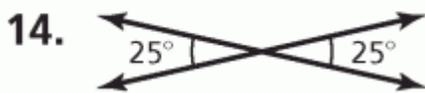
5. *Sample answer:* adjacent: $\angle FGH$ and $\angle HGJ$, $\angle FGK$ and $\angle KGJ$; vertical: $\angle FGH$ and $\angle JGK$, $\angle FGK$ and $\angle JGH$

7. $\angle ACB$ and $\angle BCD$ are adjacent angles, not vertical angles.

8. adjacent; 55

9. vertical; 128

10. adjacent; 63



21. never

22. always

23. sometimes

24. always

26. See *Taking Math Deeper*.

30. B

pp. 280-281 (#6-11, 15, 19-20, 24, 31)

6. neither

7. complementary

8. complementary

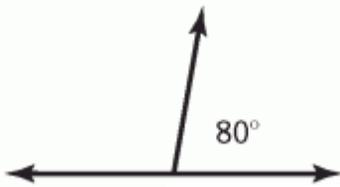
9. supplementary

10. supplementary

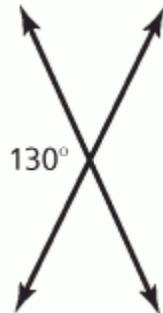
11. neither

15. $\angle 1 = 130^\circ$, $\angle 2 = 50^\circ$,
 $\angle 3 = 130^\circ$

19.



20.

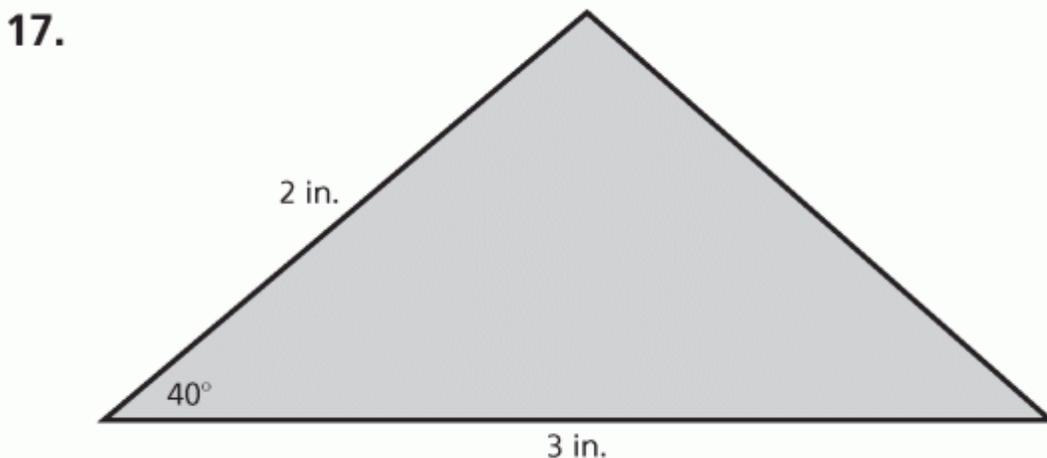
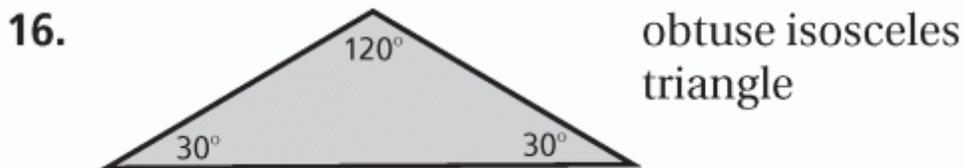
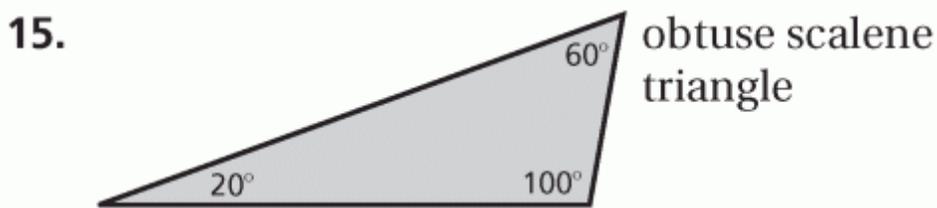
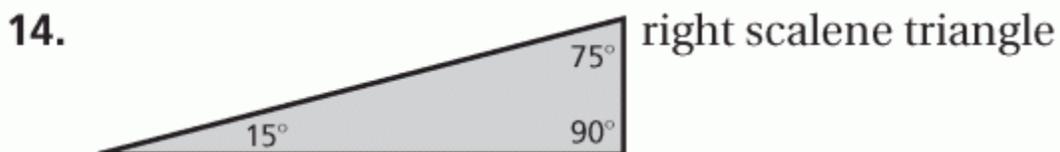


24. yes; *Sample answer:* $\angle LMQ$ is a straight angle. By removing $\angle NMP$, the remaining two angles ($\angle LMN$ and $\angle PMQ$) have a sum of 90° .

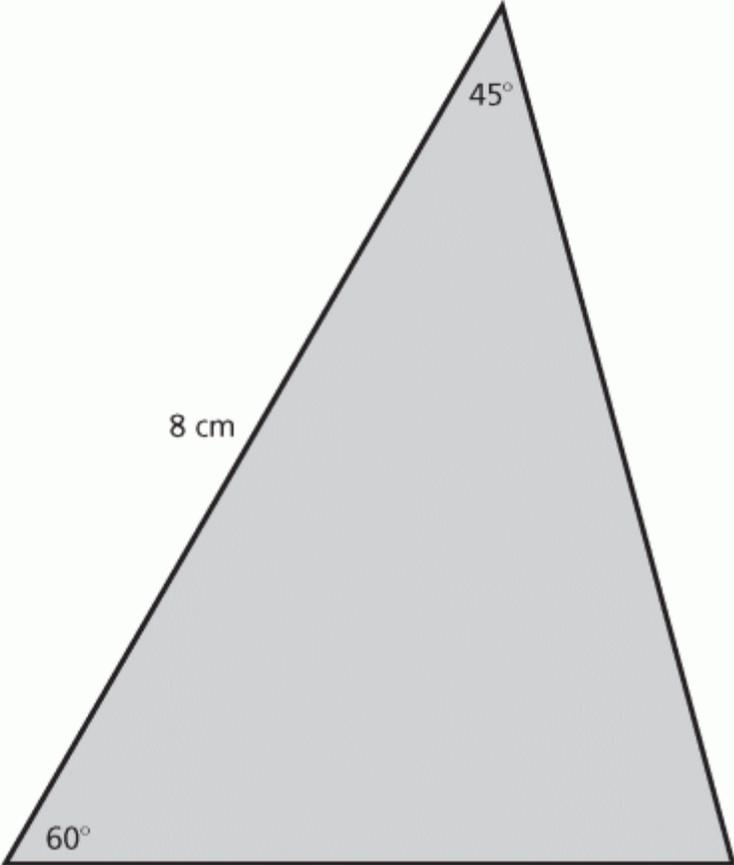
31. B

pp. 286-287 (#6-12,14-18)

6. right isosceles
7. equilateral equiangular
8. obtuse isosceles
9. right scalene
10. acute scalene
11. obtuse scalene
12. The triangle is not an acute triangle because acute triangles have 3 angles less than 90° . The triangle is an obtuse scalene triangle because it has one angle greater than 90° and no congruent sides.



18.



p. 297 (#4-14, 15-16, 18-23, and 27-30)

4. square

5. trapezoid

6. rhombus

7. kite

8. parallelogram

9. rectangle

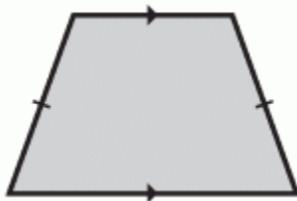
10. 65

11. 110

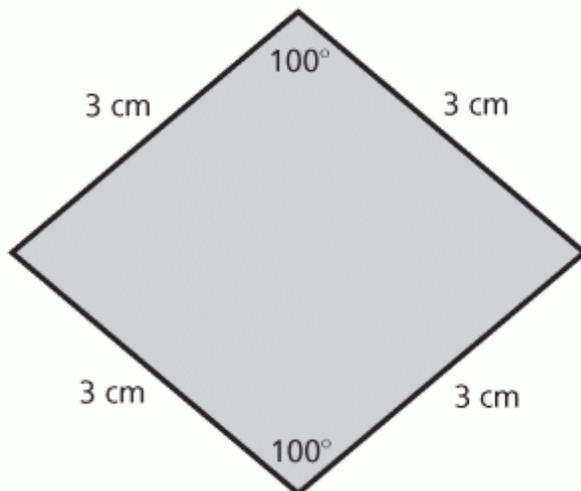
12. 128

13. 58°

14.



15.



16.



18. always

19. always

20. sometimes

21. never

22. never

23. sometimes