Name: _____ Date: _____

Fresh Math

Sketching Angles - Medium

Use a protractor to sketch each angle. Tell whether it is acute, right, obtuse, or straight, and which benchmark angles (0°, 45°, 90°, 135°, 180°) it lies between.

1. 105°
2. 100°
3. 165°
4. 80°
5. 115°
6. 160°
7. 85°
8. 125°
9. 50°
10. 140°

Name: _____ Date: _____

Sketching Angles - Medium

Find the measure of each angle in degrees. Then sketch it with a protractor.

11. an angle that turns through 1/10 of a full circle

12. an angle that turns through 5/12 of a full circle

13. an angle that turns through 1/6 of a full circle

14. an angle that turns through 1/8 of a full circle

15. an angle that turns through 1/3 of a full circle

16. an angle that turns through 3/8 of a full circle

17. an angle that turns through 1/2 of a full circle

18. an angle that turns through 1/5 of a full circle

19. an angle that turns through 1/12 of a full circle

20. an angle that turns through 1/4 of a full circle

Sketching Angles - Medium - Answer Key

1. 105°
   obtuse; between 90° and 135°

2. 100°
   obtuse; between 90° and 135°

3. 165°
   obtuse; between 135° and 180°

4. 80°
   acute; between 45° and 90°

5. 115°
   obtuse; between 90° and 135°

6. 160°
   obtuse; between 135° and 180°

7. 85°
   acute; between 45° and 90°

8. 125°
   obtuse; between 90° and 135°

9. 50°
   acute; between 45° and 90°

10. 140°
    obtuse; between 135° and 180°

Sketching Angles – Medium – Answer Key

11. an angle that turns through 1/10 of a full circle
    1/10 × 360° = 36°; acute

12. an angle that turns through 5/12 of a full circle
    5/12 × 360° = 150°; obtuse

13. an angle that turns through 1/6 of a full circle
    1/6 × 360° = 60°; acute

14. an angle that turns through 1/8 of a full circle
    1/8 × 360° = 45°; acute

15. an angle that turns through 1/3 of a full circle
    1/3 × 360° = 120°; obtuse

16. an angle that turns through 3/8 of a full circle
    3/8 × 360° = 135°; obtuse

17. an angle that turns through 1/2 of a full circle
    1/2 × 360° = 180°; straight

18. an angle that turns through 1/5 of a full circle
    1/5 × 360° = 72°; acute

19. an angle that turns through 1/12 of a full circle
    1/12 × 360° = 30°; acute

20. an angle that turns through 1/4 of a full circle
    1/4 × 360° = 90°; right