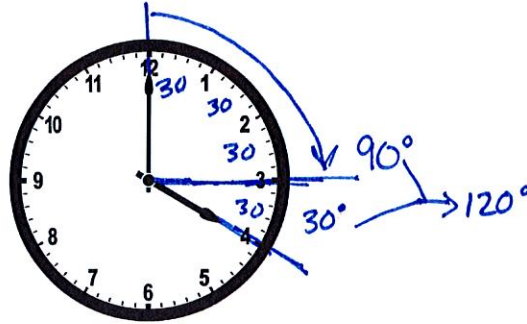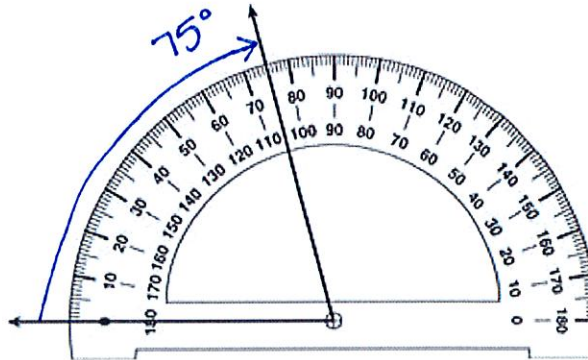1. The time on the clock below is 4:00. If the hands of the clock were extended, they would intersect the edge of the clock. The arc formed by these two hands would be $\frac{2}{6}$ of the full circle.

What angle is formed by the hands of the clock?

    a. 40°
    b. 90°
    c. 120°
    d. 180°

2. What is the measure of the angle shown on the protractor?

    a. 115°
    b. 105°
    c. 85°
    d. 75°

3. A garden sprinkler rotates 40° every 15 seconds. How long does it take the sprinkler to rotate 360°?
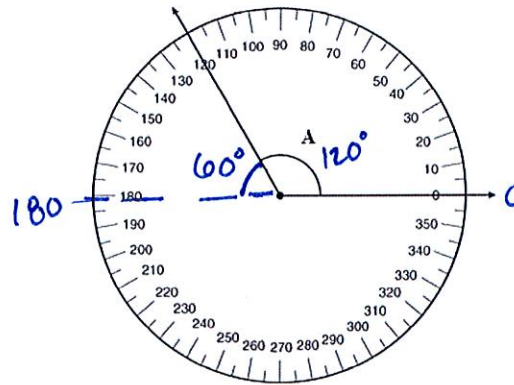
   a. 1 minute
   b. 2 minutes 15 seconds
   c. 2 minutes 25 seconds
   d. 10 minutes

Handwritten work:
$$\begin{array}{r} 40° \\ \times 9 \\ \hline 360 \end{array}$$
$$\begin{array}{r} 15min \\ \times 9 \\ \hline 135min \end{array}$$
$$2hr = 120 \, min + 15 \, min = 135 \, min$$
15 min

4. Which of the following statements is true about Angle A?

Handwritten labels: 60°, 120°, A, 180, 180°

   a. Both Angle A and the smaller arc on the circle measure 120°
   b. Both Angle A and the larger arc on the circle measure 240°
   c. Both Angle A and the smaller arc on the circle measure 0°
   d. Both Angle A and the smaller arc on the circle measure 240°

Handwritten: 180° (crossed out)

5. A video surveillance camera turned 40° and paused before continuing to turn. If the camera turned a total of 142°, how many degrees did the camera turn on the second rotation?

Handwritten labels: 142°, 40°
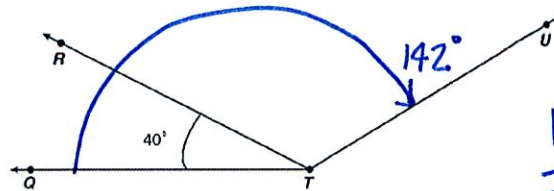
$$\begin{array}{r} 142 \\ -40 \\ \hline 102° \end{array}$$

   a. 182°
   b. 180°
   c. 102°
   d. 100°

6. A museum is building a ramp to make the building wheelchair and stroller accessible. The ramp will have a 20° incline. The contractor knows that the measure for one angle of the post should be 70°. He needs to determine the measure of the missing angle, x, to make sure that the post for the handrail is straight, at 180°.

Post

180
-70
110°
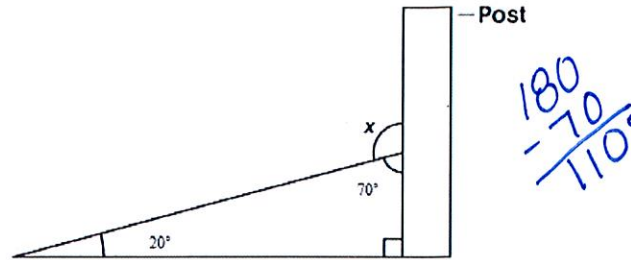
Which should be the value of x, the measure of the missing angle, to make sure the post for the handrail is straight?

    a. 90°
    b. 100°
    c. 110°
    d. 180°

7. Jasmine drew the figure below.

More than 90
not a straight line

D   C

E

A   B
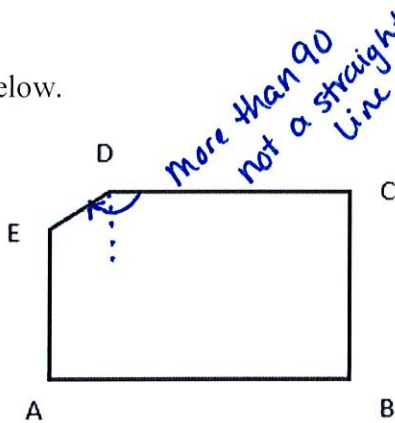
Which measurement is closest to the measure of < D?

    a. 45°
    b. 90°
    c. 150°
    d. 175°

8. The figure below shows the intersection of streets. Hawthorne St. intersects Chriswood St. at a 110° angle. Chriswood St. intersects Larkspur St. at a 40° angle.
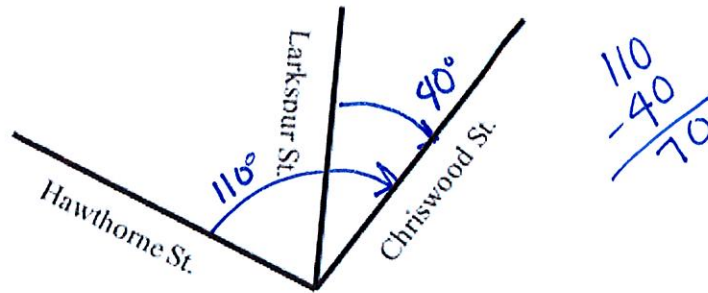
At what angle does Hawthorne St. intersect Larkspur St.?

a. 70°
b. 80°
c. 140° Too much!
d. 150°

9. A fan moves in a left to right motion before going back from right to left. The fan rotates five degrees each second. If the fan rotated a total of 145 degrees, how many 5 degree turns did the fan make in all?

a. 29
b. 140
c. 290
d. 360

10. At the carnival, a Ferris wheel rotates small angles to load and dismount passengers. If the Ferris wheel has rotated 340 degrees already, how many degrees remain to make a full rotation?

a. 360°
b. 200°
c. 150°
d. 20°

ANSWER KEY

1. C
2. D
3. B
4. A
5. C
6. C
7. C
8. A
9. A
10. D