

PROBLEM SOLVING

Lesson 11.5

Name _____

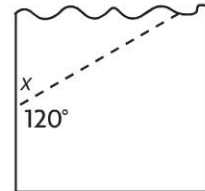
Problem Solving • Unknown Angle Measures

COMMON CORE STANDARD CC.4.MD.7

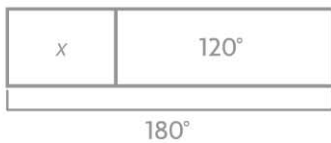
Geometric measurement: understand concepts of angle and measure angles.

Solve each problem. Draw a diagram to help.

1. Wayne is building a birdhouse. He is cutting a board as shown. What is the angle measure of the piece left over?



Draw a bar model to represent the problem.



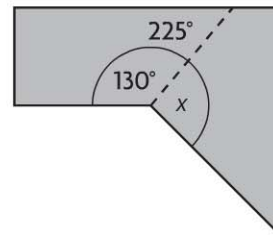
$$x + 120^\circ = 180^\circ$$

$$x = 180^\circ - 120^\circ$$

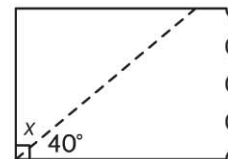
$$x = 60^\circ$$

60°

2. An artist is cutting a piece of metal as shown. What is the angle measure of the piece left over?

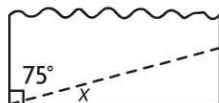


3. Joan has a piece of material for making a costume. She needs to cut it as shown. What is the angle measure of the piece left over?



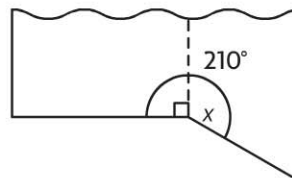
Lesson Check (CC.4.MD.7)

1. Angelo cuts a triangle from a sheet of paper as shown. What is the measure of $\angle X$ in the triangle?



- (A) 15°
- (B) 25°
- (C) 75°
- (D) 105°

2. Cindy cuts a piece of wood as shown. What is the angle measure of the piece left over?



- (A) 30°
- (B) 90°
- (C) 120°
- (D) 150°

Spiral Review (CC.4.OA.3, CC.4.NF.2, CC.4.NF.6, CC.4.MD.7)

3. Tyronne worked 21 days last month. He earned \$79 each day. How much did Tyronne earn last month? (Lesson 3.7)

- (A) \$869
- (B) \$948
- (C) \$1,659
- (D) \$2,169

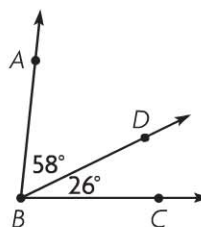
4. Meg inline skated for $\frac{7}{10}$ mile. Which shows this distance written as a decimal? (Lesson 9.1)

- (A) 0.07 mile
- (B) 0.1 mile
- (C) 0.7 mile
- (D) 7.1 miles

5. Kerry ran $\frac{3}{4}$ mile. Sherrie ran $\frac{1}{2}$ mile. Marcie ran $\frac{2}{3}$ mile. Which list orders the friends from least to greatest distance run? (Lesson 6.8)

- (A) Kerry, Sherrie, Marcie
- (B) Kerry, Marcie, Sherrie
- (C) Sherrie, Kerry, Marcie
- (D) Sherrie, Marcie, Kerry

6. What is the measure of $\angle ABC$? (Lesson 11.4)



- (A) 32°
- (B) 84°
- (C) 88°
- (D) 94°