

Lesson 11.4

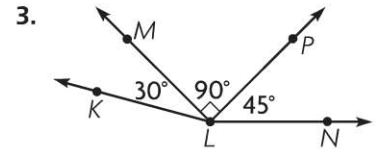
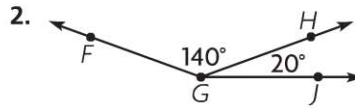
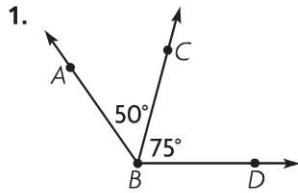
Name _____

Join and Separate Angles

COMMON CORE STANDARD CC.4.MD.7

Geometric measurement: understand concepts of angle and measure angles.

Add to find the measure of the angle. Write an equation to record your work.



$50^\circ + 75^\circ = 125^\circ$

$m\angle ABD = 125^\circ$

$m\angle FGJ =$ _____

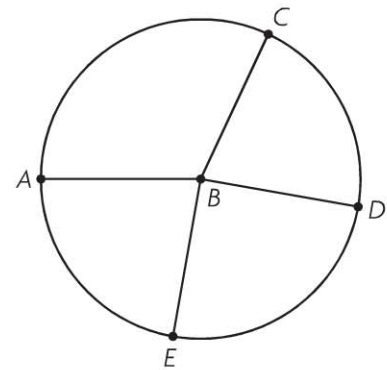
$m\angle KLN =$ _____

Use a protractor to find the measure of each angle in the circle.

4. $m\angle ABC =$ _____ 5. $m\angle DBE =$ _____

6. $m\angle CBD =$ _____ 7. $m\angle EBA =$ _____

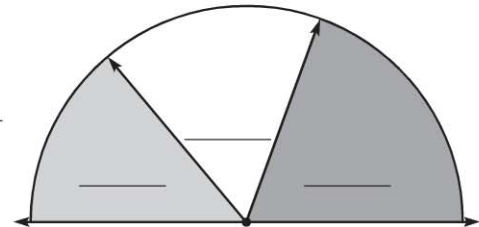
8. Write the sum of the angle measures as an equation.



Problem Solving **REAL WORLD**

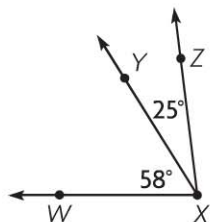
9. Ned made the design at the right. Use a protractor. Find and write the measure of each of the 3 angles.

10. Write an equation to find the measure of the total angle.



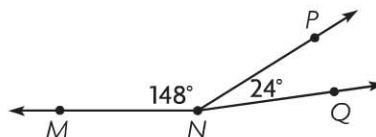
Lesson Check (CC.4.MD.7)

1. What is the measure of $\angle WXZ$?



- (A) 32°
- (B) 83°
- (C) 88°
- (D) 97°

2. Which equation can you use to find the $m\angle MNQ$?



- (A) $148^\circ - 24^\circ = \square$
- (B) $148^\circ \times 24^\circ = \square$
- (C) $148^\circ \div 24^\circ = \square$
- (D) $148^\circ + 24^\circ = \square$

Spiral Review (CC.4.NBT.5, CC.4.NF.3d, CC.4.MD.5a, CC.4.MD.5b, CC.4.G.2)

3. Joe bought 6 packages of envelopes. Each package contains 125 envelopes. How many envelopes did he buy?

(Lesson 2.11)

- (A) 750
- (B) 723
- (C) 720
- (D) 650

4. The Lake Trail is $\frac{3}{10}$ mile long and the Rock Trail is $\frac{5}{10}$ long. Bill hiked each trail once. How many miles did he hike in all?

(Lesson 7.5)

- (A) $\frac{1}{5}$ mile
- (B) $\frac{4}{10}$ mile
- (C) $\frac{1}{2}$ mile
- (D) $\frac{8}{10}$ mile

5. Ron drew a quadrilateral with 4 right angles and 4 sides with the same length. Which best describes the figure he drew?

(Lesson 10.4)

- (A) square
- (B) rhombus
- (C) trapezoid
- (D) parallelogram

6. How many degrees are in an angle that turns through $\frac{3}{4}$ of a circle? (Lesson 11.2)

- (A) 45°
- (B) 90°
- (C) 180°
- (D) 270°