

**AMERICAN MATH HW
WEEK OF 31MAR TO 4APR**

Due Date: 04/06 by midnight

Focus for the week: The focus of the HW this week is “Angles”. The HW for this week focuses on:

- Classifying angles – Acute, Right, Obtuse, Straight, and Reflex
- Calculate angles in degrees when portion of circle is given
- Join and Separate Angles
- Find unknown angles in word problem context

Pacing guideline: **Look at the top right corner of the page** to see the suggested pace for the homework

Uploading Instructions: Upload homework on Archie and wait till you get the message – “**the file has been successfully uploaded**”. IF for any reason you have technical issues, get in touch with me as soon as possible.

IMPORTANT – Please show all your work for FULL CREDIT. If you are multiplying or dividing, I would like to see the multiplication and division sentences to see what numbers are being multiplied or divided.

Note: **Bring your homework to class everyday.** I will discuss the HW from the previous day in every class. It is important to practice the assigned topics daily because the next day’s instruction builds on the previous lesson.

ANNOUNCEMENT – **You have a quiz next week on Wednesday, 04/09 on Angles.**

Name _____

Exploring Angles

Classify the angles. (Acute, Right, Obtuse, Straight, or Reflex)

1.



2.



3.



Circle at least one acute, obtuse and right angle. Explain.

4.



Problem Solving



5. Dwayna started exercising at noon. If the time she ended her workout creates a reflex angle, what time could her workout end? Draw the minute hand on the clock to show the time.



Start

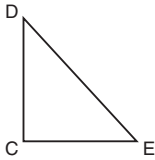


End

Name _____

Degrees

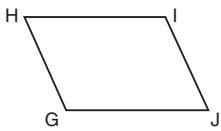
1. Sterling drew a triangle CDE , as shown below.



Which is the closest to the measure of $\angle D$?

- ☐ A. 45° ☐ B. 90° ☐ C. 180° ☐ D. 360°

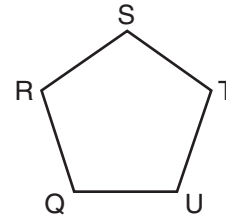
2. Colleen drew a parallelogram $GHIJ$, as shown below.



Which is the closest to the measure of $\angle G$?

- ☐ A. 45° ☐ B. 90° ☐ C. 180° ☐ D. 360°

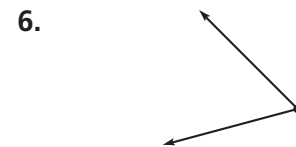
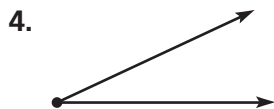
3. Tillman drew a polygon $QRSTU$, as shown below.



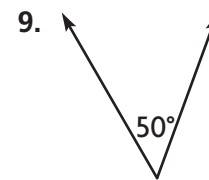
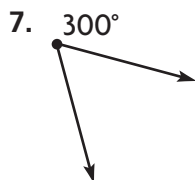
Which is the closest to the measure of $\angle T$?

- ☐ A. 45° ☐ B. 90°
☐ C. 180° ☐ D. 360°

Estimate the measure of each angle using benchmark angles: 30° , 45° , 60° , 90° , 180° .



Classify the angle. Write acute, obtuse, right, reflex or straight.



Problem Solving

Ann started reading at 4:00 p.m. and finished at 4:20 p.m.

10. Through what fraction of a circle did the minute hand turn?



Start

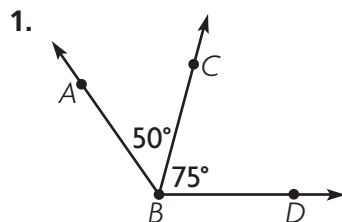


End

Name _____

Join and Separate Angles

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

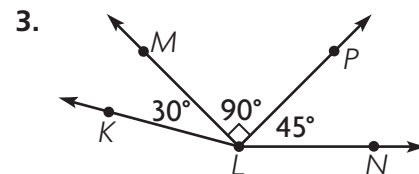


$$50^\circ + 75^\circ = 125^\circ$$

$$m\angle ABD = \underline{125^\circ}$$



$$m\angle FGJ = \underline{\hspace{2cm}}$$



$$m\angle KLN = \underline{\hspace{2cm}}$$

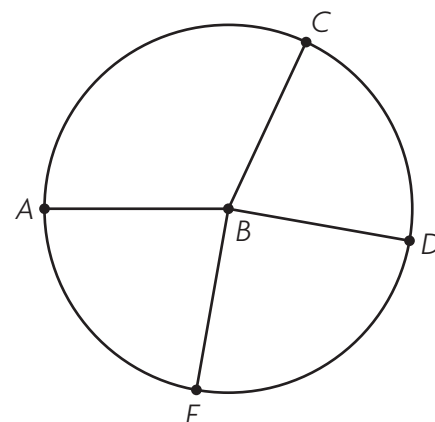
Use a protractor to find the measure of each angle in the circle.

4. $m\angle ABC = \underline{\hspace{2cm}}$

5. $m\angle DBE = \underline{\hspace{2cm}}$

6. $m\angle CBD = \underline{\hspace{2cm}}$

7. $m\angle EBA = \underline{\hspace{2cm}}$



Problem Solving

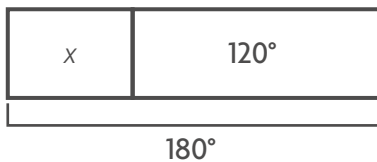
Name _____

Unknown Angle Measures

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.

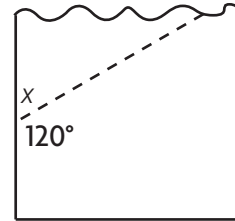


$$x + 120^\circ = 180^\circ$$

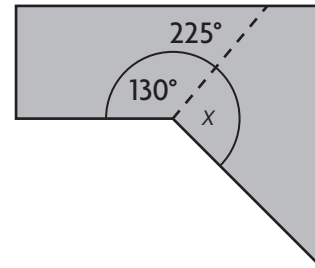
$$x = 180^\circ - 120^\circ$$

$$x = 60^\circ$$

60°

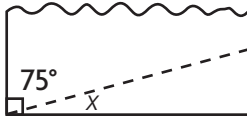


2. An artist is cutting a piece of metal as shown. What is the angle measure of the piece left over?



Lesson Check

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



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

