AMERICAN MATH HW
WEEK OF 7APR TO 11APR

Due Date: 04/13 by midnight

Focus for the week: The focus of the HW this week is "Angles". The HW for this week focuses on a review for the quiz.

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 on Wednesday, 04/09 on Angles. The following topics will be covered:
- 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

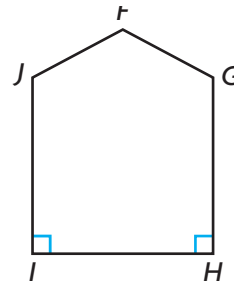**(Please note – Measuring and Drawing angles using protractor will not be covered on the quiz)**

Name _____

Review (Skip questions that require a protractor to measure/draw)

1. Tell whether each angle is acute, right, or obtuse.

∠F is _____

∠G is _____

∠H is _____

(figure: pentagon-shaped house outline with vertices F at top, J on left, G on right, I at bottom-left with right angle mark, H at bottom-right with right angle mark)

2. Match the measure of each ∠C with the measure of ∠D that forms a straight angle.

∠C	∠D
	• 145°
122° •	• 75°
35° •	• 148°
62° •	• 58°
105° •	• 55°
	• 118°

3. Katie drew an obtuse angle. Which could be the measure of the angle she drew? Mark all that apply.

Ⓐ 35°   Ⓒ 180°

Ⓑ 157°   Ⓓ 92°

**4.** Using the ray, draw another ray with the same vertex to create a right angle.

Go Online For more help

5. Renee drew the figure shown. For Problems 5a–5c, choose Yes or No to tell whether the statement is true.

75° x
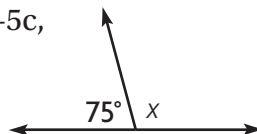
5a. The measure of a straight angle is 180°. ○ Yes ○ No

5b. To find the measure of x, Renee can subtract 75° from 180°. ○ Yes ○ No

5c. The measure of x is 115°. ○ Yes ○ No

6. Trey drew this figure with a protractor.

J 80° K
55°
E F G

Part A
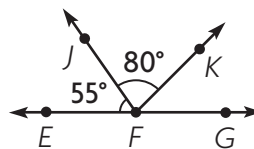
Write an equation that can be used to find m∠KFG.

Part B

What is the measure of ∠KFG? Describe how you solved the equation and how you can check your answer.

7. Use a protractor to find the measure of the angle. Classify it.

The angle measures _____.
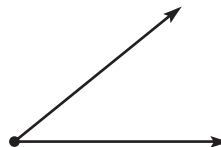
It is a/an _____ angle.

8. Alex drew this angle.
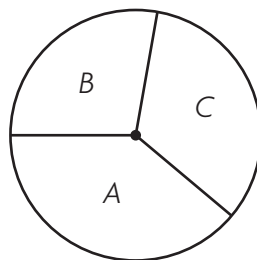Which describes the angle?
Mark all that apply.
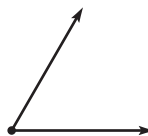
(A) right angle (C) acute angle

(B) less than 90˚ (D) more than 90˚

9. Describe the angle shown in the image. How would you classify it?

_____

_____

10. Use a protractor to find the measure of each angle. Write each angle and its measure in a box ordered by the measure of the angles from least to greatest.
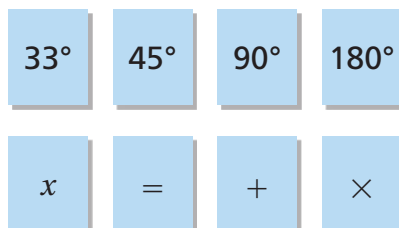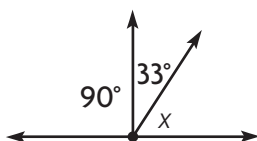
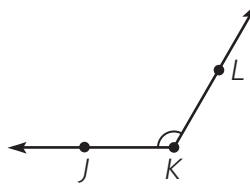| Angle: _____	Angle: _____	Angle: _____
Measure:	Measure:	Measure:

11. Use numbers and symbols on the tiles to write an equation that can be used to find the measure of the unknown angle.

33°	45°	90°	180°
x	=	+	×

What is the measure of the unknown angle? _____

12. Choose the word and angle measure to complete a true statement about ∠JKL.

∠JKL is a(n)

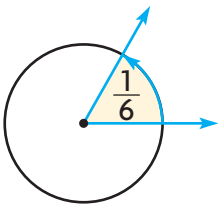| acute |
| obtuse |
| right |

angle that has a measure of

| 60° |
| 120° |
| 135° |

.

13. Circle at least one acute, obtuse, straight, and right angle in the picture. Choose two to explain how you can use benchmark angles to estimate angle size.

14. An angle turns through $\frac{1}{6}$ of a circle. What is the measure of the angle?

_____

15. Write the letter for each angle measure in the correct box.

(A) 125°   (B) 90°   (C) 180°   (D) 30°   (E) 45°   (F) 95°

| acute | obtuse | right | straight |

16. For Problems 16a and 16b, circle the words
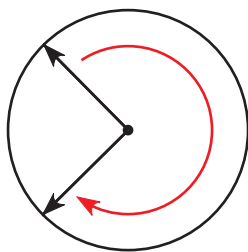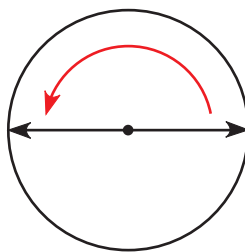that make a true statement about the figure.
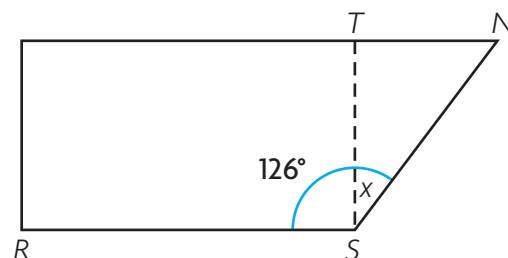

Figure 1   Figure 2

16a. Figure 1 is
| an acute |
| an obtuse |
| a reflex |
| a right |
| a straight |
angle.

16b. Figure 2 is
| an acute |
| an obtuse |
| a reflex |
| a right |
| a straight |
angle.

17. Melanie cuts a rectangle out of a piece of scrap paper
as shown. She wants to calculate the angle
measure x of the piece that is left over.

Part A

Draw a bar model to represent the problem.

Part B

Write and solve an equation to find x.

The angle measures _____.

18. Two angles, $\angle A$ and $\angle B$, form a right angle. $\angle A$ measures 32°. For Problems 18a–18c, choose True or False for the statement.

18a. $\angle B$ is an acute angle.   ○ True   ○ False

18b.   The equation 180° − 32° = x ○ True   ○ False
can be used to find the
measure of $\angle B$.

18c.   The measure of $\angle B$ is 58°.   ○ True   ○ False

19. A circle is divided into parts. Which sum could represent the angle measures that make up the circle? Mark all that apply.

Ⓐ   120° + 120° + 120° + 120°

Ⓑ   25° + 40° + 80° + 105° + 110°

Ⓒ   33° + 82° + 111° + 50° + 84°

Ⓓ   40° + 53° + 72° + 81° + 90° + 34°

20. Use a protractor to find the measures of the unknown angles.

Frog Pond
y x
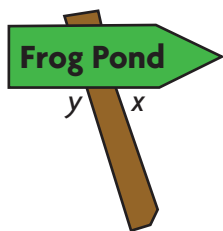
m$\angle x =$ _____   m$\angle y =$ _____

What do you notice about the measures of the unknown angles? Is this what you would have expected? Explain your reasoning.
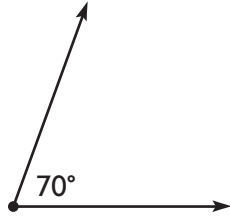
Lesson Check

7. What type of angle is the alligator's mouth making? Explain.

_____

_____

_____

8. Draw a shape with at least one acute angle and one obtuse angle. Label each angle.
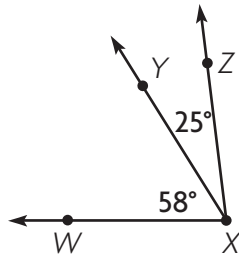
Lesson Check
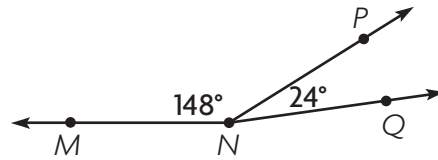
12. What kind of angle is shown?

70°

13. How many degrees are in an angle that turns through $\frac{1}{3}$ of a circle? What type of angle is it?
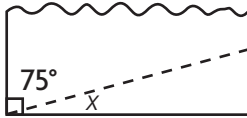
Lesson Check

11. What is the measure of ∠*WXZ*?

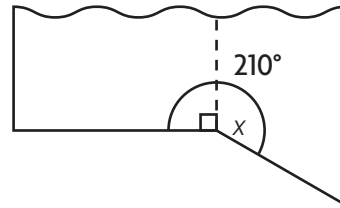**12.** Write an equation that you can use to find the m∠*MNQ*.

Lesson Check

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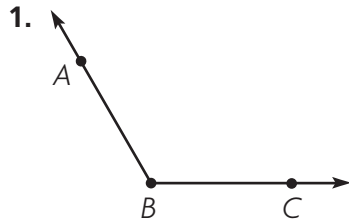

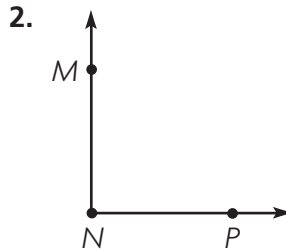**5.** Cindy cuts a piece of wood as shown. What is the angle measure of the piece left over?
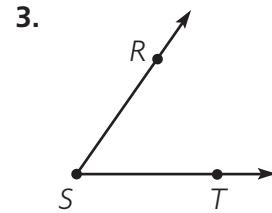
Name _____

Measure and Draw Angles

Use a protractor to find the angle measure.

1.

$m\angle ABC =$ ___**120°**___

2.

$m\angle MNP =$ _____

3.

$m\angle RST =$ _____

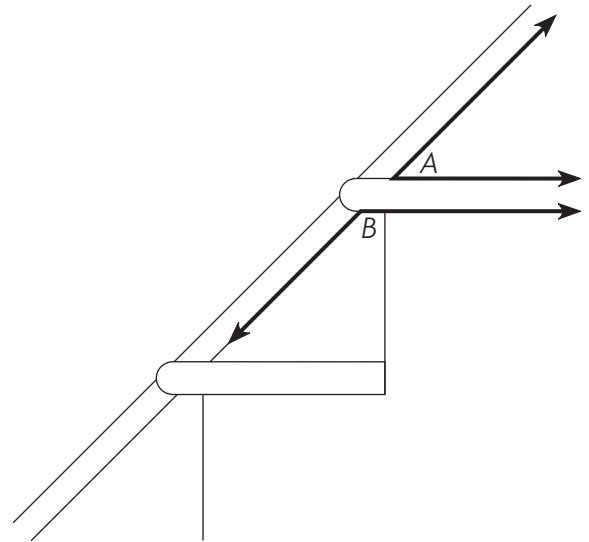**Use a protractor to draw the angle.**

4. 40°

5. 170°

Problem Solving Real World

The drawing shows the angles a stair tread makes with a support board along a wall. Use your protractor to measure the angles.

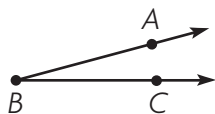6. What is the measure of $\angle A$? _____

7. What is the measure of $\angle B$? _____

8. **WRITE** ▸*Math* Find an angle at home. Measure the angle. Record the measure. Classify the angle.

_____

_____

_____

_____

Lesson Check

9. What is the measure of ∠*ABC*?

10. What is the measure of ∠*XYZ*?

_____

_____