





# ANGLES REVIEW

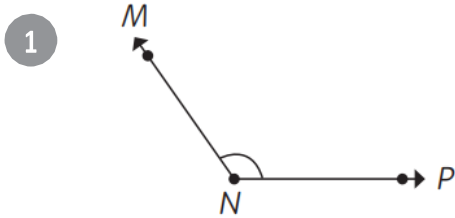


Choose 1 activity from each row. You will complete **4** activities total. Most activities should take approximately 15 minutes. However, some activities may take additional time.

|  |  |   |  |
|--|--|---|--|
| <br><b>My teacher's assignment</b>                              | Complete <b>Activity #1</b> and turn it into your teacher.   |   | Complete <b>Activity #2</b> and turn it into your teacher.   |
| <br><b>Add, Subtract, Multiply, Divide: Practice your facts</b> | Practice your facts with a partner.<br><br><i>You can use flash cards, playing cards, or dice. Take turns and see how quickly you can recall your facts.</i>         | Practice your facts using Freckle, Xtra Math, or another online platform.   | Practice your facts by playing Multiplication Squares.<br><br><i>See directions and game board on pages 6-8.</i>   |
| <br><b>Technology</b>  | <b>Play the online game: Angle Invaders</b><br><br><a href="https://mrnussbaum.com/angle-invaders-online-game">https://mrnussbaum.com/angle-invaders-online-game</a> | <b>Play the online game: Quarterback Geometry</b><br><br><a href="https://toytheater.com/quarterback/">https://toytheater.com/quarterback/</a>  | <b>Play the online game: Alien Angles</b><br><br><a href="https://www.mathplayground.com/alien-angles.html">https://www.mathplayground.com/alien-angles.html</a>   |
| <br><b>Hands on: play a game</b>                              | <b>Play "Angle Connect Four" Game</b><br><br><i>If you don't have a printer, create the cards on paper or draw your own angles as you play.</i>                      | <b>Draw a picture</b><br><br>Draw a picture that contains 1 of each kind of angle (acute, obtuse, right, and straight). Label the angles in your picture.<br><b>Bonus:</b> Estimate the measure of each angle and add that to your label. | <b>Angles Outside</b><br><br><i>Find things outside and create angles with them. A jump rope, chalk, sticks, sports equipment, etc. Take pictures, label them, and send them to your teacher.</i><br><b>See examples on page 12.</b> |

# ANGLES: ACTIVITY #1

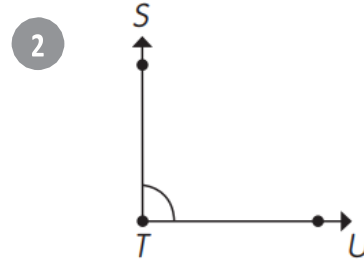
Name the angles using the short form and the long form.



Short Form: \_\_\_\_\_

Long Form: \_\_\_\_\_

or \_\_\_\_\_

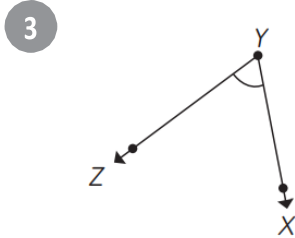


Short Form: \_\_\_\_\_

Long Form: \_\_\_\_\_

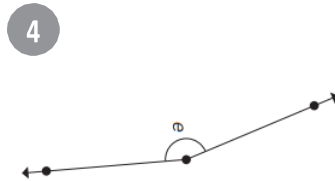
or \_\_\_\_\_

**Write: Acute, obtuse, right, or straight**



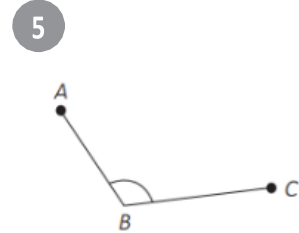
Type of angle:

\_\_\_\_\_



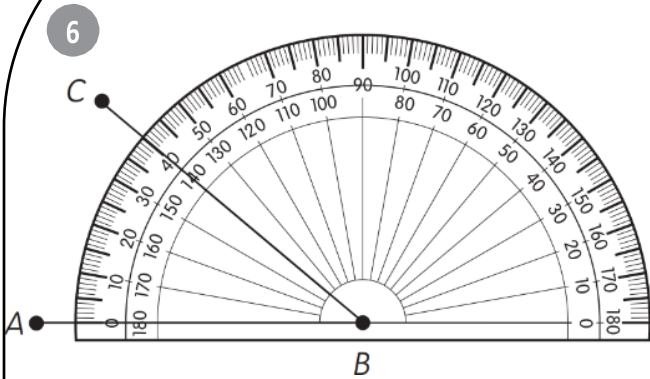
Type of angle:

\_\_\_\_\_

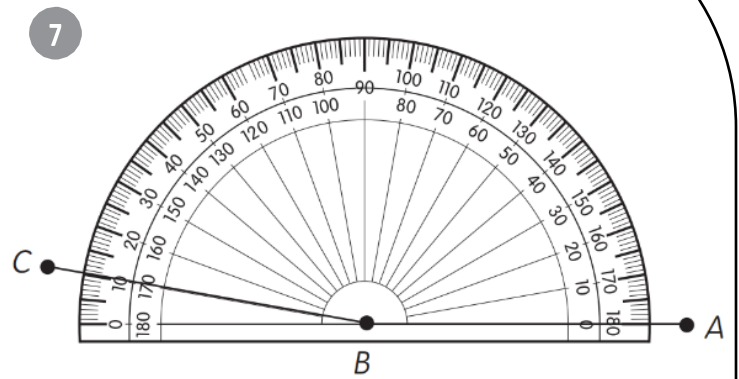


Type of angle:

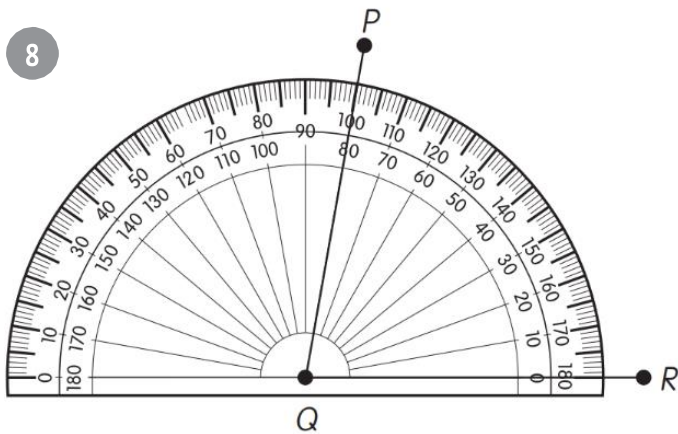
\_\_\_\_\_



Angle Measurement: \_\_\_\_\_

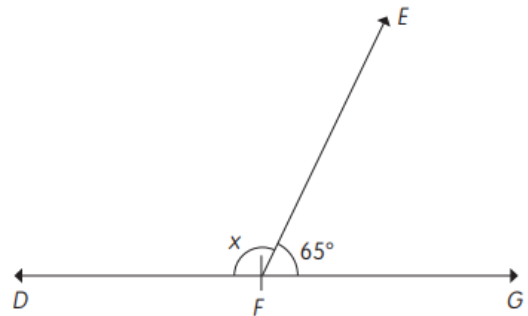


Angle Measurement: \_\_\_\_\_



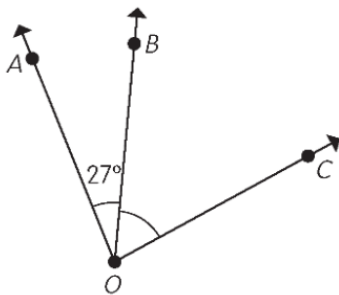
Angle Measurement: \_\_\_\_\_

9  $\angle DFG$  is a straight line. Find the measure of  $\angle x$ .



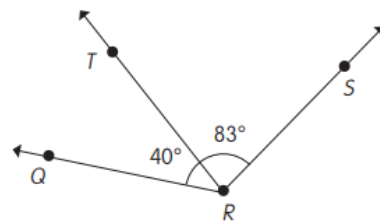
The measure of  $\angle x =$  \_\_\_\_\_

10  $\angle AOC$  is  $110^\circ$ .  
Find the measure of  $\angle BOC$ .



The measure of  $\angle BOC =$  \_\_\_\_\_

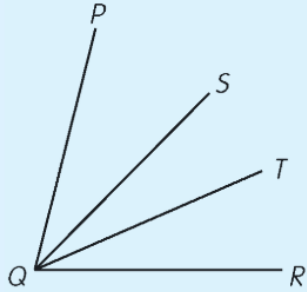
11 Find the measure of  $\angle QRS$ .



The measure of  $\angle QRS =$  \_\_\_\_\_

## ANGLES: ACTIVITY #2

- 1 An acute angle is smaller than  $90^\circ$ .  $\angle PQR$  is an acute angle. How many acute angles are there altogether in the following figure?



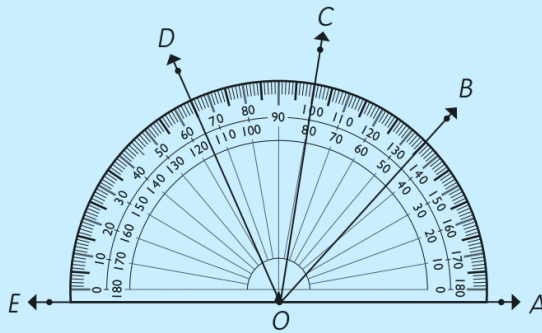
Name all the acute angles below.

---

---

---

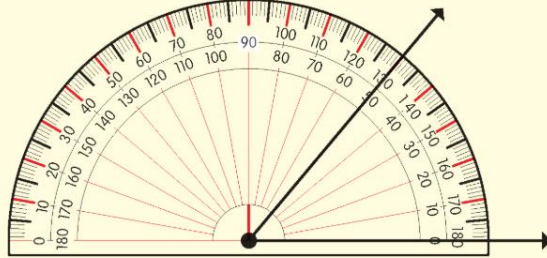
- 2 Two of the angles in the diagram are  $35^\circ$  each. Name them.



\_\_\_\_\_ and \_\_\_\_\_

3

Evan and Jack are studying an art piece. In the art piece, two rays form an angle as shown below. They each measure the angle.



- a Evan says the measure of the angle is  $50^\circ$ , but Jack says it is  $130^\circ$ . Who is correct, Evan or Jack? Explain your answer.

---

---

---

- b Evan says the angle is an acute angle. Jack says the angle is less than a straight angle. Explain whether their statements are correct.

---

---

---

# Multiplication

## S Q U A R E S

### How to Play

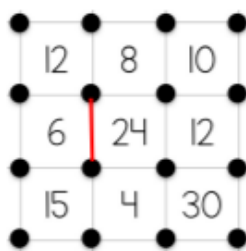
#### Preparation and Materials:

1. Print out the Multiplication Squares board. You will need one board per game.
  - **PAPER-SAVING TIP:** Laminate the board and use thin dry erase markers to play. That way, students can erase their marks and use the same board each time.
2. Get 2 dice.
3. Get a different colored marker for each player.

**Object of the Game:** To be the player who captures the most squares.

#### Playing the Game:

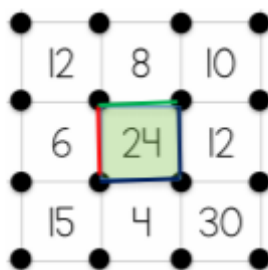
1. Each player rolls one dice. The player with the highest roll goes first.
2. The player rolls both of the dice on the table and multiplies the two numbers together. For example, if the player rolls 6 and 4, he/she multiplies 6 and 4 to get 24.
3. The player looks for the product of the two dice on the squares board, and draws ONE line by connecting any two dots that are surrounding that number, as shown below. The player's marker is used to draw the line between the dots.



*For a roll of 6 and 4, the player may find one of the 24s on the squares board. The player may connect any two dots on any side surrounding the 24*

# How to Play (continued)

4. After the player draws his/her line, that player's turn is over and the next player's turn begins.
5. Players are always striving to draw a line that will complete a square. When one player draws a line that completes a square, that player colors in the square with his/her marker and gets to take another turn with the dice.



*The player with the green marker drew the top line that completed the square around the 24 and colored the square green to show that he captured that square.*

*Note: The player with the green marker could have rolled a product of 8 (above the 24). Because the player's line on the 8 would have completed the 24 square, he still would get to capture the 24 square.*

6. If a player rolls a product that has no more available lines left on the board, the player's turn is over and play continues with the next player.
7. The game ends when all dots on the board have been connected (or when the teacher calls time). The player with the most captured squares is the winner.

# No PREP Multiplication

**S** **Q** **U** **A** **R** **E** **S**

|    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|
| 4  | 10 | 24 | 3  | 12 | 4  | 25 | 2  | 15 | 20 |
| 20 | 30 | 36 | 8  | 15 | 5  | 18 | 30 | 12 | 9  |
| 18 | 5  | 1  | 24 | 20 | 25 | 6  | 1  | 24 | 8  |
| 12 | 16 | 25 | 6  | 36 | 3  | 36 | 5  | 4  | 24 |
| 2  | 9  | 24 | 18 | 12 | 8  | 10 | 4  | 15 | 12 |
| 5  | 15 | 4  | 30 | 6  | 24 | 12 | 2  | 18 | 3  |
| 8  | 20 | 36 | 5  | 15 | 4  | 30 | 1  | 3  | 12 |
| 24 | 6  | 20 | 2  | 18 | 25 | 15 | 6  | 20 | 10 |
| 3  | 30 | 10 | 30 | 15 | 9  | 6  | 5  | 18 | 4  |
| 12 | 5  | 16 | 24 | 8  | 3  | 30 | 12 | 10 | 16 |

Brought to you by:





# ANGLE CONNECT FOUR

## Materials:

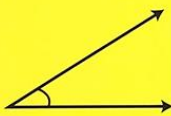
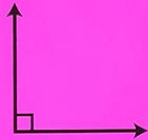



Angle cards and game board

## How to Play:

**Partner 1:** Draw an angle card or draw an angle on a whiteboard or sheet of paper.

**Partner 2:** Find a spot on the gameboard that matches and color it in.

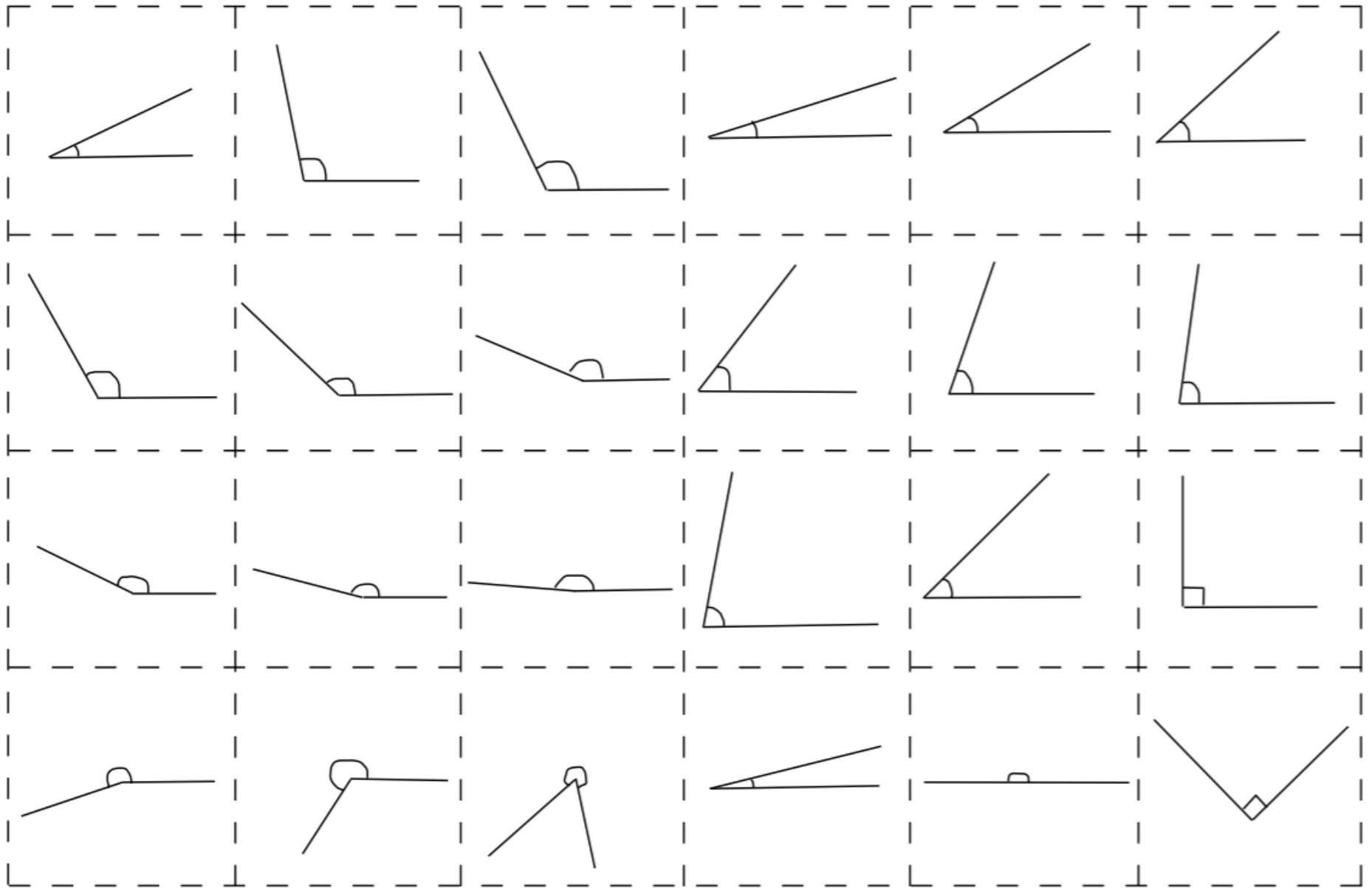
Take turns. The first person who gets a Connect Four wins.

|   |   |   |  |   |
|---|---|---|--|---|
| Acute Angle   | Right Angle   | Obtuse Angle  | Straight Angle   | Reflex Angle  |
|  |  |  |  |  |
| An angle that measures less than $90^\circ$ .                                       | An angle that measures exactly $90^\circ$ .   | An angle that measures more than $90^\circ$ .                                       | An angle that measures exactly $180^\circ$ .   | An angle that measures between $180^\circ$ and $360^\circ$ .                          |

## Angle Connect Four Game Board

|  |   |  |   |                                      |  |
|--|---|--|---|--------------------------------------|--|
| an acute angle   | more than an acute or a right angle                   | less than a reflex angle                               | more than a straight line   | an obtuse angle                      | an acute angle                               |
| more than an obtuse angle                              | less than a straight line but more than a right angle | less than a right angle                                | a reflex angle  | less than an obtuse or a right angle | more than an obtuse angle or a straight line |
| more than a right angle but less than a reflex angle   | a reflex angle  | an obtuse angle  | less than an obtuse angle   | an obtuse angle                      | less than a reflex angle                     |
| less than an obtuse angle but more than an acute angle | an acute angle  | less than a reflex angle but more than an obtuse angle | less than a reflex angle or a straight line but more than a right angle | less than a right angle              | a right angle                                |

# Angle Connect Four Game Cards



# "ANGLES OUTSIDE" EXAMPLES

