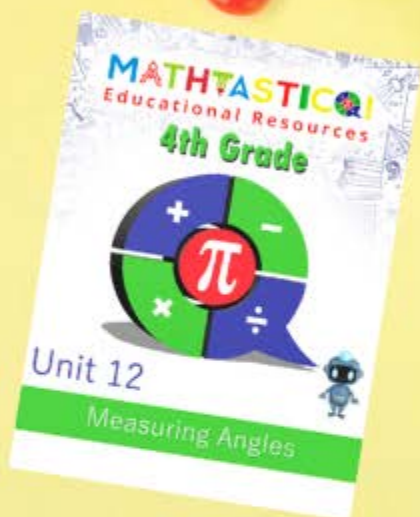


# MATH BUNDLE!

## 4th Grade Unit 12



- GAMES
- PRE-ASSESSMENTS
- GUIDED PRACTICE
- HOMEWORK LESSONS
- INDEPENDENT PRACTICE
- CHECKPOINTS
- ASSESSMENT
- SPIRAL REVIEW

**UNIT 12: MEASURING ANGLES** Lesson 1

**PROBLEM SOLVING**

1. A figure is shown below.

Which two line segments appear to be perpendicular?

A. Line segments AD and DE  
B. Line segments AB and CD  
C. Line segments AC and DE  
D. Line segments AC and AD

2. Which geometric term describes the lines below?

A. Intersecting lines  
B. Perpendicular lines  
C. Parallel lines  
D. Line segments

3. Sketch three line figures.

Figure A: A triangle  
Figure B: A square  
Figure C: A circle  
Figure D: A star

Which of these figures appear to have both a horizontal line of symmetry and a vertical line of symmetry?

A. Figure A only  
B. Figure B only  
C. Figure C and D  
D. Figure D, A, and B

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**UNIT 12 CHECKPOINT 1**

1. Do the lengths of the rays affect the size of the angle? Why?

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2. Albert, Maria, and Chloe went on a camping trip. They brought a tent. They want to know the measure of the angle formed at the top of the tent.

What is the measure of the angle to the nearest degree?

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**UNIT 12: MEASURING ANGLES** Lesson 2

**INDEPENDENT PRACTICE**

1. Which angle has a measure closest to  $30^\circ$ ?

A. B. C. D.

2. An angle is shown on the protractor below.

What is the measure of the angle to the nearest degree?

A.  $140^\circ$ , because  $70^\circ$  plus  $70^\circ$  equals  $140^\circ$   
B.  $70^\circ$ , because  $140^\circ$  minus  $70^\circ$  equals  $70^\circ$   
C.  $40^\circ$ , because  $140^\circ$  minus  $70^\circ$  equals  $40^\circ$   
D.  $180^\circ$ , because  $140^\circ$  plus  $40^\circ$  equals  $180^\circ$

3. What is the measure of angle JKL to the nearest degree?

A.  $20^\circ$   
B.  $140^\circ$   
C.  $80^\circ$   
D.  $40^\circ$

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**UNIT 12: MEASURING ANGLES** Lesson 3

**INDEPENDENT PRACTICE**

1. Ray AD has been drawn on the protractor, as shown.

To construct an angle that has a measure of  $75^\circ$ , another ray can be drawn that starts at point A and passes through...

A. Point E  
B. Point C  
C. Point H  
D. Point F

2. Ray CF has been drawn on the protractor, as shown.

To construct a right angle, another ray can be drawn that starts at point C and passes through...

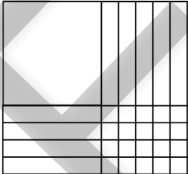

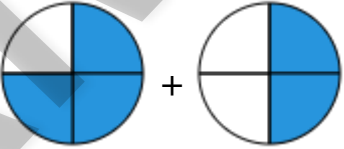
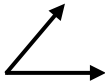
A. Point E  
B. Point H  
C. Point D  
D. Point G

3. Ray EF has been drawn on the protractor shown above. To construct an acute angle, another ray can be drawn that starts at point E and passes through...

A. Point G  
B. Point H  
C. Point D  
D. Point F

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<b>M O N D A Y</b>	<p>1. Write the expression below in standard form.</p> $(5 \times 10,000) + (2 \times 1,000) + (8 \times 100) + (6 \times 10) + (4 \times 0.1) + (9 \times 0.01)$ <p>_____</p>	<p>2. Find the sum.</p> $65,321.45$ $+ 29,543.09$ <div style="border: 1px solid black; height: 30px; width: 150px; margin: 10px auto;"></div>	<p>3. Write and solve the equation represented by the area model below.</p>  <p>_____</p>								
<b>T U E S D A Y</b>	<p>4. Round 743,210 to the nearest <b>ten thousand</b>.</p> <p>_____</p>	<p>5. A bakery placed 525 cookies in boxes. Each box has 15 cookies. How many boxes did the bakery use?</p> <p>_____</p>	<p>6. Complete the input/output table below.</p> <table border="1" data-bbox="958 720 1310 973"> <thead> <tr> <th>Input</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>25</td> </tr> <tr> <td>140</td> <td>35</td> </tr> <tr> <td>200</td> <td>_____</td> </tr> </tbody> </table>	Input	Output	100	25	140	35	200	_____
Input	Output										
100	25										
140	35										
200	_____										
<b>W E D N E S D A Y</b>	<p>7. Shade <math>\frac{2}{3}</math> of the model below.</p> 	<p>8. Add the fractions.</p>  <p>_____</p>	<p>9. Represent the data in the list below on a stem-and-leaf plot.</p> <p>32, 48, 27, 40, 29</p> <table border="1" data-bbox="1001 1207 1282 1358"> <thead> <tr> <th>Stem</th> <th>Leaf</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>2</td> </tr> </tbody> </table> <p>3   2 means 32.</p>	Stem	Leaf	3	2				
Stem	Leaf										
3	2										
<b>T H U R S D A Y</b>	<p>10. Find the area of the rectangle below.</p> <div style="border: 1px solid black; padding: 10px; width: 150px; margin: 10px auto;"> <p style="text-align: center;">18 m</p> <div style="border: 1px solid black; height: 50px; width: 100px; margin: 10px auto;"></div> <p style="text-align: center;">8 m</p> </div> <p>_____</p>	<p>11. How many inches are equivalent to 15 feet?</p> <p>_____</p>	<p>12. What type of angle is represented by the drawing below?</p>  <p>_____</p>								

## HOMEWORK LESSON 1

For items 1-3, use your protractor to measure the angles.

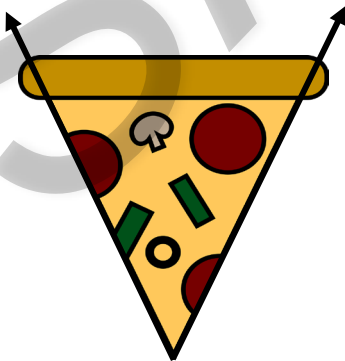
- 1 What is the measure of the angle formed by the hands of the clock?



- 2 What is the measure of the angle formed by the sign board?

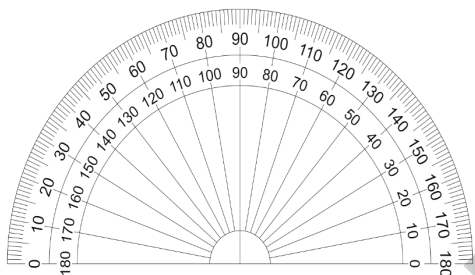


- 3 What is the measure of the angle formed at the tip of the pizza slice?



## GUIDED PRACTICE

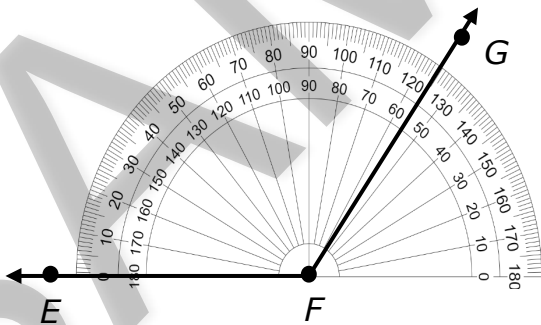
**Draw an angle that measures  $125^\circ$ . Label it as  $\angle EFG$ .**



Follow the steps below to draw an angle using a protractor:

1. Draw a straight line. This line will be the first leg of your angle.
2. Mark the vertex. Align the center of the protractor's baseline with the vertex.
3. Find the degree of the angle you want to draw on the outer scale of the protractor.
4. Draw the second leg of the angle to complete the angle.

Below is the drawing of an angle that measures  $125^\circ$ .



Name the angle either by its vertex or through its three points. In this case, the angle's name will represent the three points E, F, and G with the vertex being the middle-point of the angle.

The symbol used to name an angle is  $\angle$ .



An **angle vertex** is a point where two or more line segments/rays meet.





## Memory Game

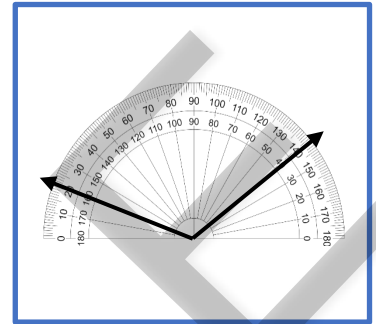
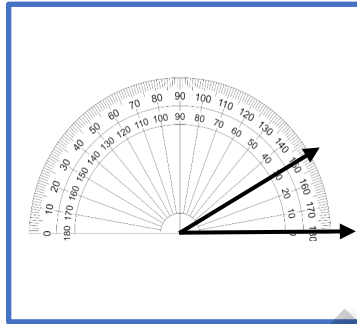
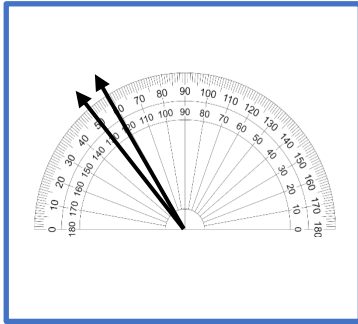
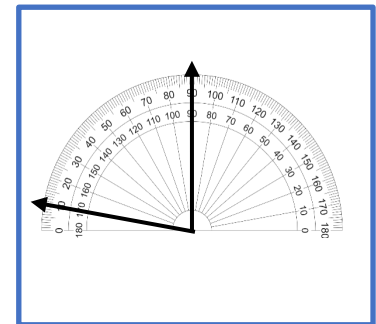
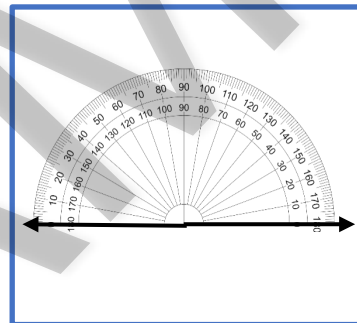
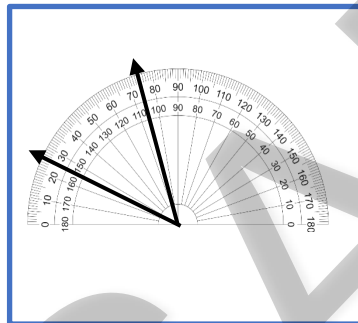
This game is for two players. Each player will need a set of flash cards. You can find one set of flashcards on pages 213 and 215. The time limit is 10 minutes. When the time is up, the player that has the highest number of flashcards is the winner.

Follow these instructions to play the game:

1. Cut out all the flash cards. In a set of 12 flashcards, there are 6 pairs of angles on a protractor and their angle measurements. Shuffle them and place them face down on any flat surface.
2. Play rock, paper, scissors. The winner will get the first turn.
3. On your turn, pick any two flashcards from the set and reveal them. If you reveal a matching pair, then you keep both cards
4. If you reveal a pair that do not match, lay them face down in their original position.
5. Players will take turns flipping cards until there are none left or if the time is up.

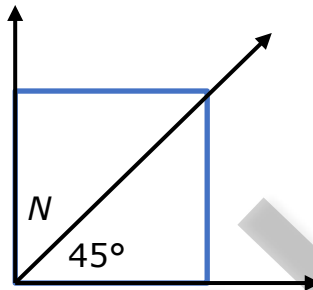
The player with the sharpest memory wins the game.



 **$10^\circ$**  **$30^\circ$**  **$120^\circ$**  **$50^\circ$**  **$180^\circ$**  **$80^\circ$** 

## SKILL BUILDING

- 1 Daniela made a square sandwich. She cut the sandwich diagonally in two halves. The diagram below shows how Daniela sliced the sandwich.

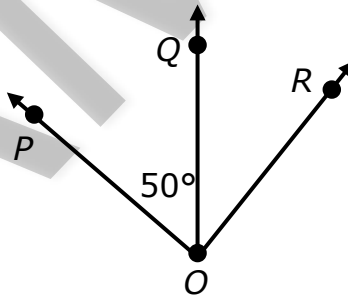


What is the measure of angle  $N$ ?

\_\_\_\_\_



- 2 A fountain shoots out water in three directions. The diagram below shows the angles formed by the water shooting out of the fountain.



The measure of angle  $POR$  is  $85^\circ$ . What is the measure of angle  $QOR$  in degrees?

\_\_\_\_\_

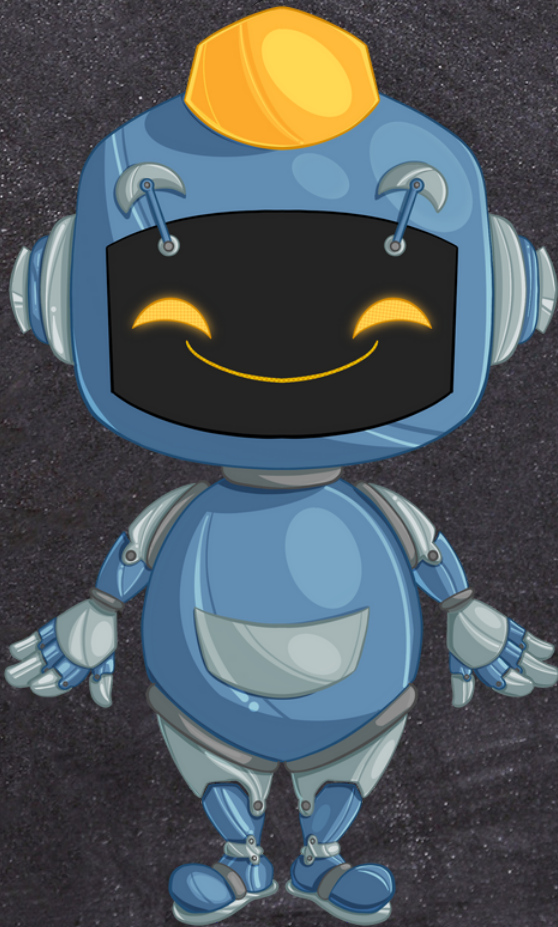




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5.7C	Atmospheric Resources			
5.7D	Hydrological Resources			
5.7E	Soil Resources			

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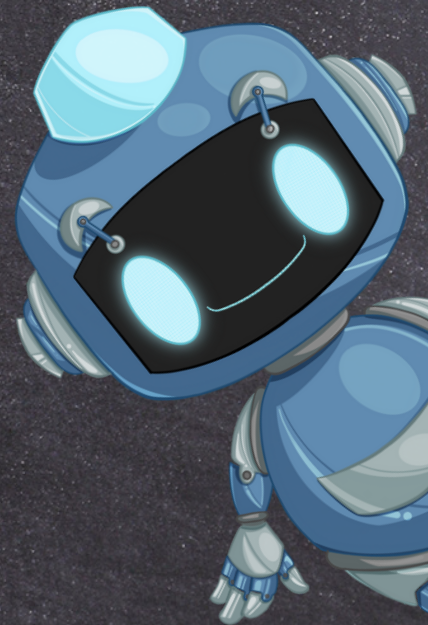
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5.8B	Ecological Living & Non-Living			
5.8C	Ecological Living & Non-Living			
5.8D	Producers, Consumers, Decomposers			

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