

keep scrolling to get  
a sneak peek!

Help your Algebra 2 & PreCalculus students practice **converting between degrees and radians** with this chain activity! Your students are going to love this self-checking activity!

Print and use this set of 16 chain pieces in minutes. They are simple to prep and fit well into any **Trigonometry Unit Circle** unit. Add them to your rotation for easy skill practice all year.

# CONVERTING BETWEEN DEGREES & RADIANS

## Self Checking Trigonometry Activity

**CONVERTING BETWEEN DEGREES AND RADIANS CHAIN ACTIVITY**  
Directions: Start with any card and convert the given degree or radian. Show your work in the spaces below.

Starting Card #: 14 Card #: 3 Card #: 1  
 $\frac{\pi}{4} \cdot \frac{180}{\pi} = 45^\circ$   $225 \cdot \frac{\pi}{180} = \frac{5\pi}{4}$   $330 \cdot \frac{\pi}{180} = \frac{11\pi}{6}$

Card #: 10 Card #: 6 Card #: 2  
 $150 \cdot \frac{\pi}{180} = \frac{5\pi}{6}$   $300 \cdot \frac{\pi}{180} = \frac{5\pi}{3}$   $3\pi \cdot \frac{180}{\pi} = 540^\circ$

Card #: 5 Card #: 7 Card #: 9  
 $180 \cdot \frac{\pi}{180} = \pi$   $315 \cdot \frac{\pi}{180} = \frac{7\pi}{4}$

30° Convert  $\frac{\pi}{4}$  into degrees. #14  
45° Convert 225° into radians. #3  
5π/4 Convert 330° into radians. #1  
11π/6 Convert π/2 into degrees. #4



Detailed Answer Key Included

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Why do you need this?



Chains are an effective, low-prep way to create engaging and interactive learning experience



Chains are very versatile because they cater to a wide range of student needs

# Converting Between Degrees & Radians Paper Chain

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### CONVERTING BETWEEN DEGREES AND RADIANs CHAIN ACTIVITY

Directions: Start with any card and convert the given degree or radian. Show your work in the spaces below.

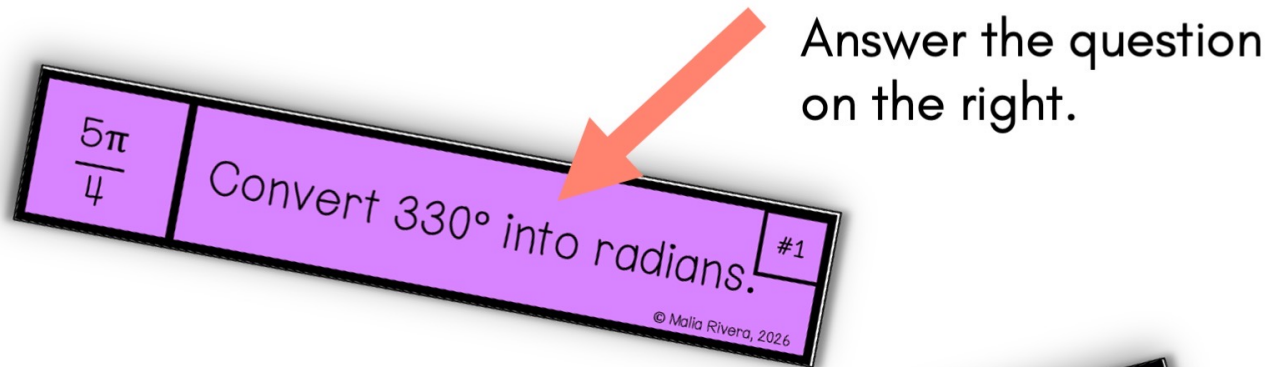
|                        |               |               |               |
|------------------------|---------------|---------------|---------------|
| Starting Card #: _____ | Card #: _____ | Card #: _____ | Card #: _____ |
| →                      | →             | →             | ↓             |
| Card #: _____          | Card #: _____ | Card #: _____ | Card #: _____ |
| ←                      | ←             | ←             | ←             |
| Card #: _____          | Card #: _____ | Card #: _____ | Card #: _____ |
| ←                      | ←             | →             | →             |
| Final Card #: _____    | Card #: _____ | Card #: _____ | Card #: _____ |

$\frac{5\pi}{4}$  #1  
Convert  $330^\circ$  into radians.  
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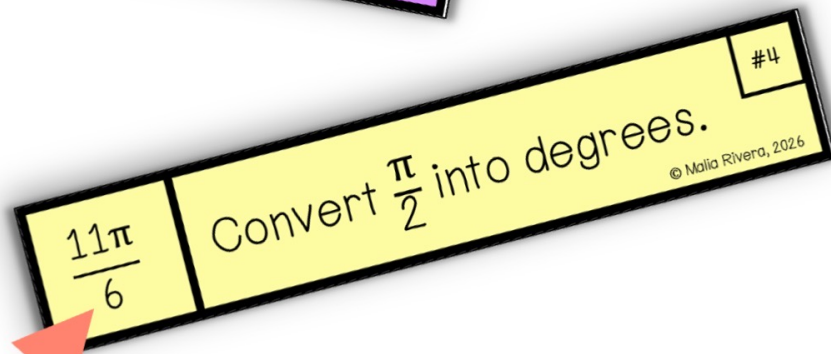
30° #14  
Convert  $\frac{\pi}{4}$  into degrees.  
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$\frac{11\pi}{6}$  #4  
Convert  $\frac{\pi}{2}$  into degrees.  
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# Converting Between Degrees & Radians *includes:*



Answer the question on the right.



Find the answer on the left side of another piece to move onto the next question

- ✓ set of 16 unit circle degrees & radians pieces to convert
- ✓ recording sheet for students to show their work
- ✓ a detailed answer key
- ✓ teacher instructions for printing & use with students.

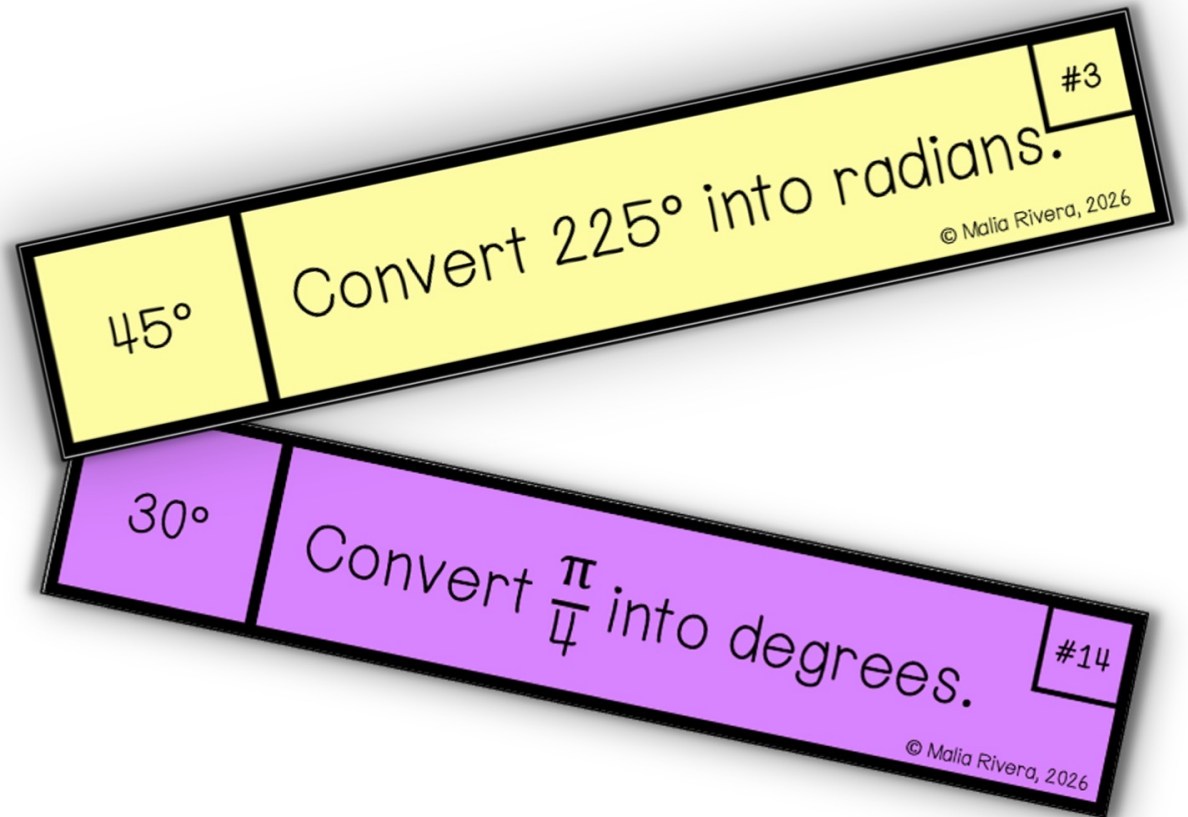
# Converting Between Degrees & Radians Paper Chain

standards covered:

**CCSS:** HSF-TF.A.1, HSF-TF.A.2

**TEKs:** P.4.B

**VA SOLs:** TCTF.T.2



# how to use this resource

This is a great practice activity to use when reviewing how to convert between radians and degrees.

You can also use this in small groups, math centers, or individual practice.

This is also a **substitute-friendly** assignment!

Name: **ANSWER KEY** Date: \_\_\_\_\_

### CONVERTING BETWEEN DEGREES AND RADIAN CHAIN ACTIVITY

Directions: Start with any card and convert the given degree or radian. Show your work in the spaces below.

|  |  |   |  |
|--|--|---|--|
| Starting Card #: <u>14</u><br>$\frac{\pi}{4} \cdot \frac{180}{\pi} = 45^\circ$ | Card #: <u>3</u><br>$225 \cdot \frac{\pi}{180}$                        | Card #: <u>1</u><br>$330 \cdot \frac{\pi}{180} = \frac{11\pi}{6}$ | Card #: <u>4</u><br>$\frac{\pi}{2} \cdot \frac{180}{\pi} = 90^\circ$ |
| Card #: _____  | Card #: <u>2</u><br>$\frac{3\pi}{4} \cdot \frac{180}{\pi} = 135^\circ$ | Card #: <u>13</u><br>$120 \cdot \frac{\pi}{180} = \frac{2\pi}{3}$ | Card #: _____  |

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**TEACHER INSTRUCTIONS**

Objective: Students practice converting between common units, building a continuous loop of matching cards. Students must convert each value to find the next.

Materials Needed:

- Printed card pages
- Scissors or paper cutter
- Student recording sheet - optional
- Envelopes or bags for storage - optional

Prep Directions:

- Print the card set on regular paper or cardstock. Print out as many sets as you need for students.
- Cut out all 16 cards for each set.
- Shuffle the cards before giving to students.

Tips: Laminating cards allows repeated classroom use.

Other Notes: Encourage students to use known benchmark conversions rather than a calculator. Simplify radian answers when needed. Check the previous match rather than starting from the beginning. It doesn't matter the order you start with.

**Convert  $\frac{11\pi}{6}$  into degrees.** #4



hey there!

My name is Malia and I'm passionate about making learning and practicing math fun. I love creating engaging math resources for my students and I hope your students enjoy this activity too!

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