# CONCEPTS OF ANGLES 

## - - 4th Mrade

 - 11 은 $-\quad \because$ NAME: DATE:__ $\quad \because$

Each individual furn forms an arc between the two rays. So, if an angle turns
$\frac{1}{360}=1^{\circ}$

## AS FRACTIONS <br> $\mathrm{AS}_{\text {of a cricle }}^{\text {ACTIONS }}$ <br> of a crcle



## Printable \& Google Slides

## CONCEPTS OF

-•..........ANGLES

## 40:

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## CONCEPTS OF ANGLES

weriproblems
Directions: Solve the word problems below. Use the circle to sketch the angles described
in each problem.
Tiana is slicing a fresh, homemade apple pie to share with her
three friends. She wants the pie to be split fairly, so she cuts the pie into 4 equal slices. In degrees, what would be the angle of one slice of pie?

$\qquad$ DATE: $\qquad$

## ANGLES AS FRACTIONS

## of a crcte

Directions: Write the fractions as angles, in degrees.
(1) $\frac{125}{360}=$ $\qquad$ (2) $\frac{90}{360}=$ $\qquad$
(3) $\frac{45}{360}=$ $\qquad$ (4) $\frac{17}{360}=$ $\qquad$ INS
(5) $\frac{32}{360}$


DATE: $\qquad$

## ANGELO'S ANGLES

NaME:
ANGLES AS FP



DATE: $\square$
ANGLES A


NAME: $\qquad$ DATE:
ANGLES AS FRACTI
of a carcle Draetione Write the ongles sos fraction
(1)

(2)


3

(4)


6
$\qquad$

- $\qquad$



A circle is equal to 360 degrees. An angle is a fraction of a circle. An angle measures the arc between two rays that share a common endpoint at the center of the circle.

Each individual turn forms an arc between the two rays. So, if an angle turns through 180, one-degree angles, the measurement of that angle is 180 degrees.


$$
\frac{180}{360}=\frac{1}{2}=180^{\circ}
$$

$$
\frac{90}{360}=\frac{1}{4}=90^{\circ}
$$


$\frac{45}{360}=\frac{1}{8}=45^{\circ}$

## INTERIOR \& EXTERIOR

The exterior (outside) angle and the interior (inside) angle will always equal 360 degrees when added together.
 DATE: $\qquad$

## ANGLES AS FRACTIONS

 of a circleDirections: Write the angles as a fraction.


Answer: $\qquad$


Answer: $\qquad$

## (4)



Answer: $\qquad$ Answer:

(5)


Answer: $\qquad$ Answer: $\qquad$

NAME: $\qquad$
(7)


Answer: $\qquad$

Answer: $\qquad$
(9)


Directions: Write the angles as a fraction.
(11) $76^{\circ}=$ $\qquad$ (12) $90^{\circ}=$ $\qquad$
(13 $270^{\circ}=$ $\qquad$ (14) $124^{\circ}=$ $\qquad$
(15) $1^{\circ}=$ $\qquad$ (16) $85^{\circ}=$ $\qquad$
$\qquad$
$\qquad$

# ANGLES AS FRACTIONS of a circle 

Directions: Write the fractions as angles, in degrees.


Direction wis as a fraction.


Answer: $\qquad$

9

(10) $270^{\circ}=$ $\qquad$
$11 \quad 180^{\circ}=$ $\qquad$
$1233^{\circ}=$ $\qquad$
$\qquad$
$\qquad$
$\qquad$

## ANGLES AS FRACTIONS

 of a circleDirections: When a circle is divided into equal pieces, each piece has the same angle. If you take $360^{\circ}$ and divide it by the number of pieces, you will find the measurement of each angle. Use this strategy to find the measurement of each angle on the circles below.


$\qquad$

$\qquad$ DATE: $\qquad$

# CONCEPTS OF ANGLES 

 wart problemsDirections: Solve the word problems below. Use the circle to sketch the angles described in each problem.

1 Thana is slicing a fresh, homemade apple pie to share with her three friends. She wants the pie to be split fairly, so she cuts the pie into 4 equal slices. In degrees, what would be the angle of one slice of pie?


Answer: $\qquad$
(2) Samara is riding on a merry-go-round at the carnival. The merry-go-round makes it halfway around before it breaks down and stops. How many one-degree angles did the merry-
 go-round turn before it stopped?


Answer: $\qquad$
$\qquad$

3 Frankie ordered a large pizza which comes sliced into eight equal pieces. What fraction of a circle would one piece be? What would the angle of one piece be in degrees?


Fraction: $\qquad$

Angle: $\qquad$

4 Mrs. Johnson asks her students to answer how much of the circle below is shaded. Cami answers $\frac{60}{360}$, but her classmate, Ethan, says the answer should be $60^{\circ}$. Which student is correct and how do you know? Explain your choice below.

$\qquad$
$\qquad$
$\qquad$
$\qquad$

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## ANALOG ANGLES

Directions: Cut out the clock face and clock hands. Use a brad fastener to attach the clock hands to the clock face.


# ANGLES AS FRACTIONS 

 carat matching game

# NAME: <br> $\qquad$ <br> DATE: <br> $\qquad$ <br> <br> ANSWER RECORDING SHEET 

 <br> <br> ANSWER RECORDING SHEET} carat matching gaeme

| Question <br> Number | Fraction | Angle |
| :---: | :---: | :---: |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |

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