### Big Ideas in Number Resource Information

Big Ideas in Number Focus Area: Partitioning

Name of Game or Activity: I have, Who has (decimals, fractions & percentages)

#### Instructions:

1. Students are in groups of any amount and the I have, Who has cards are distributed evenly. Students verbally match the cards to show understanding of equivalence.

Resources: I have, Who has Cards.

#### **BliN Micro Content**

Objects, quantities and collections can be shared to create equal parts	
There is a relationship between the number of parts and the size and	
name of the parts and the number of parts increases as the size or share	
decreases	
Objects, quantities and collections can be repeatedly halved and	
doubled e.g. use successive splits to show that one half is equivalent to 2 parts in 4, 4 parts in 8 etc.	
An object, quantity or collection can be partitioned into a number of	
equal portions to show unit fractions so that say one third is more than one fourth etc.	
The relative magnitude of a fraction is dependent on the relationship	
between the numerator (how many parts) and the denominator (total parts)	
Fractions are renamed as equivalents where the total number of parts	
(denominator) and required number of parts (numerator) are increased by the same factor	
Fractions with unlike denominators can be compared and ordered	
Common fractions and decimal fractions can be compared, ordered and renamed in conceptual ways	
Construct of fraction as division can be used to produce equal parts (equipartitioning)	
Fractions are used to describe quotients and operators	
Fractions are used to describe part-whole relations	

### Big Ideas in Number Resource Information

Fractions are used to describe simple ratios	
Percentages, fractions and decimals express the relationship between to quantities	
Percentages are special part : whole ratios based on 100	
Any given percentage can be used as a ratio to generate an infinite number of equivalent fractions (e.g. 50% = ½ 2/4 3/6 etc.)	
Multiplicative arrays can be used to represent fractions, decimals and percentages	
Benchmark fractions, decimals and percentages which are the equivalents of one another, can be used to estimate and to solve problems	

#### I am the starter.

Who has the decimal that is equivalent to three tenths?

#### I have 50%

Who has the fraction that is equivalent to 70%?

#### I have 0.3

Who has the percentage that is equivalent to one quarter?

### I have $\frac{7}{10}$

Who has the decimal that is equivalent to 10%?

#### I have 25%.

Who has the fraction that is equivalent to 0.75?

#### I have 0.1

Who has the percentage that is equivalent to three fifths?

### I have $\frac{3}{4}$

Who has the percentage that is equivalent to nine tenths?

#### I have 60%

Who has the decimal that is equivalent to nine tenths?

#### I have 90%

Who has the percentage that is equivalent to 0.5?

#### I have 0.9

Who has the Fraction that is equivalent to 80%?



# Thave $\frac{4}{5}$

Who has the fraction that is equivalent to 25%?

#### I have 0.75

Who has the percentage that is equivalent to 0.4?

## I have $\frac{1}{4}$

Who has the percentage that is equivalent to one whole?

### I have 40%

Who has the decimal that is equivalent to seven tenths?

#### I have 100%

Who has the decimal that is equivalent to one half?

#### I have 0.7

Who has the decimal that is equivalent to one fifth?

#### I have 0.5

Who has the fraction that is equivalent to 40%?

#### I have 0.2

Who has the fraction that is equivalent to 90%?

### I have $\frac{2}{5}$

Who has the decimal that is equivalent to three quarters?

## I have $\frac{9}{10}$

Who has the percentage that is equivalent to 0.3?

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#### I have 30%

Who has the decimal that is equivalent to four fifths?

#### I have 0.6

Who has the fraction that is equivalent to 50%?

#### I have 0.8

Who has the fraction that is equivalent to 0.6?

# I have $\frac{1}{2}$

Who has the decimal that is equivalent to 25%?

## Thave $\frac{3}{5}$

Who has the fraction that is equivalent to 30%?

### I have 0.25

Who has the percentage that is equivalent to one tenth?

## I have $\frac{3}{10}$

Who has the percentage that is equivalent to 0.7?

#### I have 10%

Who has the decimal that is equivalent to four tenths?

#### I have 70%.

Who has the decimal that is equivalent to three fifths?

#### I have 0.4

I am the winner.

