Decimals on Grids and Number Lines
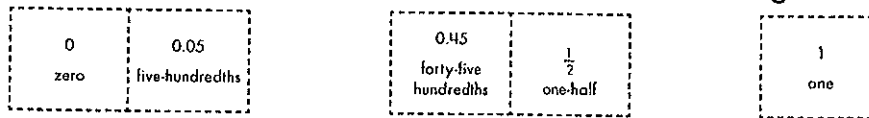
Decimals In Between

You need

• Decimal Cards, Sets A and B

Play with a partner.

1 Find the three game cards labeled 0, $\frac{1}{2}$, and 1.
Place these cards on the table (see picture below).

2 Mix the Decimal Cards. Deal six to each player.

3 Players take turns placing a card so that it touches another card
in one of these ways:

• to the right of 0   • to the left of 1
• on either side of $\frac{1}{2}$ • on top of any equivalent
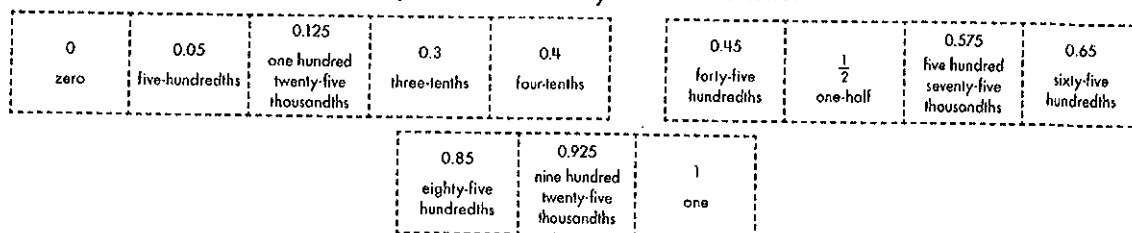
As you play a card, read the decimal aloud.

4 Cards must be placed in increasing order, from left to right. A card
may not be placed between two cards that are touching.

0	0.05
zero	five-hundredths

0.45	$\frac{1}{2}$
forty-five hundredths	one-half

1
one

In the example above, the 0.025 card may not be placed between the
0 and 0.05 cards. It cannot be played in this round.

5 Your goal is to place as many cards as you can. The round is over when
neither player can place any more cards. Your score is the number of cards
left in your hand.

At the end of the round, the table may look like this:

0	0.05	0.125	0.3	0.4
zero	five-hundredths	one hundred twenty-five thousandths	three-tenths	four-tenths

0.45	$\frac{1}{2}$	0.575	0.65
forty-five hundredths	one-half	five hundred seventy-five thousandths	sixty-five hundredths

0.85	0.925	1
eighty-five hundredths	nine hundred twenty-five thousandths	one

In this sample round, Player 1 could not play 0.25 or 0.6. Player 1 has a score
of 2. Player 2 could not play 0.025. Player 2 has a score of 1.

6 At the end of five rounds, the player with the lower score wins.

Decimal Cards, Set A

0.1 one tenth	**0.2** two tenths	**0.3** three tenths	**0.4** four tenths
0.5 five tenths	**0.6** six tenths	**0.7** seven tenths	**0.8** eight tenths
0.9 nine tenths	**0.05** five hundredths	**0.15** fifteen hundredths	**0.25** twenty-five hundredths
0.35 thirty-five hundredths	**0.45** forty-five hundredths	**0.55** fifty-five hundredths	**0.65** sixty-five hundredths
0.75 seventy-five hundredths	**0.85** eighty-five hundredths	**0.95** ninety-five hundredths	**1** one
0 zero	$\frac{1}{2}$ one half		

Decimal Cards, Set B

0.025 twenty-five thousandths	**0.075** seventy-five thousandths	**0.125** one hundred twenty-five thousandths	**0.175** one hundred seventy-five thousandths
0.225 two hundred twenty-five thousandths	**0.275** two hundred seventy-five thousandths	**0.325** three hundred twenty-five thousandths	**0.375** three hundred seventy-five thousandths
0.425 four hundred twenty-five thousandths	**0.475** four hundred seventy-five thousandths	**0.525** five hundred twenty-five thousandths	**0.575** five hundred seventy-five thousandths
0.625 six hundred twenty-five thousandths	**0.675** six hundred seventy-five thousandths	**0.725** seven hundred twenty-five thousandths	**0.775** seven hundred seventy-five thousandths
0.825 eight hundred twenty-five thousandths	**0.875** eight hundred seventy-five thousandths	**0.925** nine hundred twenty-five thousandths	**0.975** nine hundred seventy-five thousandths