Fraction Of

Materials
☐ 1 set of *Fraction Of* Fraction Cards (Set 1) (*Math Journal 1*, Activity Sheet 14)

☐ 1 set of *Fraction Of* Whole Cards (*Math Journal 1*, Activity Sheet 15)

☐ 1 *Fraction Of* Gameboard and Record Sheet for each player (*Math Masters*, p. G24)

Players 2

Skill Solving fraction-of problems

Object of the Game To get the higher score.

Directions

1 Shuffle the decks separately. Place both decks number-side down on the table.

2 Players take turns. On your turn, draw 1 card from each deck. Place the cards on your gameboard to create a fraction-of problem.

- The fraction card shows what fraction of the whole you must find.

- The whole card offers 3 possible choices. Choose a whole that will result in a fraction-of problem with a whole-number answer. There may be more than one choice.

- Solve the fraction-of problem and set the 2 cards aside. The answer to the problem is your score for the round.

Example

Player 1 draws $\dfrac{1}{10}$ and [28 35 30].

$\dfrac{1}{10}$ of 28 will *not* result in a whole-number answer.

$\dfrac{1}{10}$ of 28 is between 2 and 3.

$\dfrac{1}{10}$ of 35 will *not* result in a whole-number answer.

$\dfrac{1}{10}$ of 35 is between 3 and 4.

$\dfrac{1}{10}$ of 30 *will* result in a whole-number answer.

$\dfrac{1}{10}$ of 30 is 3.

Player 1 chooses 30 as the whole. Player 1's score for the round is 3.

Example

Player 2 draws $\dfrac{1}{2}$ and $\boxed{\begin{array}{c}12\\30\\25\end{array}}$.

Player 2 could choose 12 or 30 as the whole.

Player 2 chooses 30 because it will give more points than 12, finds $\dfrac{1}{2}$ of 30, and earns 15 points.

3 Play continues until all of the *Fraction Of* Whole Cards have been used. The player with more points wins.

Variation

For a more challenging version of the game, add 1 set of *Fraction Of* Fraction Cards (Set 2) (*Math Journal 2*, Activity Sheet 17) to the deck of *Fraction Of* Fraction Cards.

		WHOLE (Choose one.)
Fraction Card	of	Whole Card

Round	Fraction-Of Problem	Solution (Points)
Sample	$\frac{1}{5}$ of 25	5
1		
2		
3		
4		
5		
6		
7		
8		
Total Score		

Fraction Of Gameboard and Record Sheet

Fraction Of Gameboard and Record Sheet

| Fraction Card | **of** | WHOLE (Choose one.) Whole Card |

Round	Fraction-Of Problem	Solution (Points)
Sample	$\frac{1}{5}$ of 25	5
1		
2		
3		
4		
5		
6		
7		
8		
Total Score		

Fraction Of Fraction Cards (Set 1)

$\dfrac{1}{2}$	$\dfrac{1}{2}$	$\dfrac{1}{2}$	$\dfrac{1}{3}$
$\dfrac{1}{3}$	$\dfrac{1}{3}$	$\dfrac{1}{4}$	$\dfrac{1}{4}$
$\dfrac{1}{4}$	$\dfrac{1}{5}$	$\dfrac{1}{5}$	$\dfrac{1}{5}$
$\dfrac{1}{5}$	$\dfrac{1}{10}$	$\dfrac{1}{10}$	$\dfrac{1}{10}$

Fraction Of Whole Cards

✂

3 20 15	4 21 30	5 12 20	6 28 40
8 27 20	10 32 24	12 30 25	15 36 20
18 36 10	20 4 3	21 30 24	25 6 40
28 35 30	30 32 15	36 20 24	40 18 25

Fraction Of Fraction Cards (Set 2)

$\frac{2}{3}$	$\frac{2}{4}$	$\frac{3}{4}$	$\frac{2}{5}$
$\frac{3}{5}$	$\frac{4}{5}$	$\frac{2}{10}$	$\frac{3}{10}$
$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$	$\frac{7}{10}$
$\frac{8}{10}$	$\frac{9}{10}$	$\frac{0}{10}$	$\frac{4}{4}$