SAVVAS

FLUENCY GAME SAMPLE

enVision®
MATHEMATICS

Each topic features hands-on board games and fluency games to build understanding and reinforce skills throughout the year.

Pyramid Tower

Goal: Players build rational numbers that meet given parameters.

Players: 2–4 players (individuals or teams of 2)

Materials:
- **Pyramid Tower** Game Board (1 per player or team)
- **Pyramid Tower** Number cards
- **Pyramid Tower** Format cards (positive, negative, fraction bar, decimal point)
- Counters—a different color for each player or team

Setup:
- Shuffle the Number cards.
- Deal 5 Number cards to each player and place the rest face down in a pile.
- Deal 1 of each Format card to each player.

Play:
- Players (or teams) choose Number cards from their hand and Format cards as needed to build a number that fits one of the descriptions along the bottom row of the Pyramid.
- Players check each other's numbers to make sure they are correct. Every player with a correct number places a counter on the corresponding block of the Pyramid Tower.
- Players repeat these steps to complete the bottom row of the Pyramid. Once the bottom row is complete, they move to the middle row, and then to the top row.
- The first player (or team) to build a number for the top of the Pyramid wins!

Notes:
- Players are restricted to the cards in their hands. This may be frustrating for some students, but encourage them to keep going. If necessary, allow students to turn in one card for a replacement. The returned card goes to the bottom of the deck.
- Allow students to repeat a number if necessary, but encourage them to build unique numbers if possible.

Variations:
You and your students may adjust the rules of this game to create variations. Some examples of variations include:
- Use only fractions or only decimals.
- Speed round! Complete all the blocks as quickly as possible.

Pyramid Tower

How to Play

Goal: Build rational numbers that fit each box.

Players: 2–4 (individually or as teams of 2)

Set-Up:
• Shuffle the Number cards and deal 5 cards face down to each player.

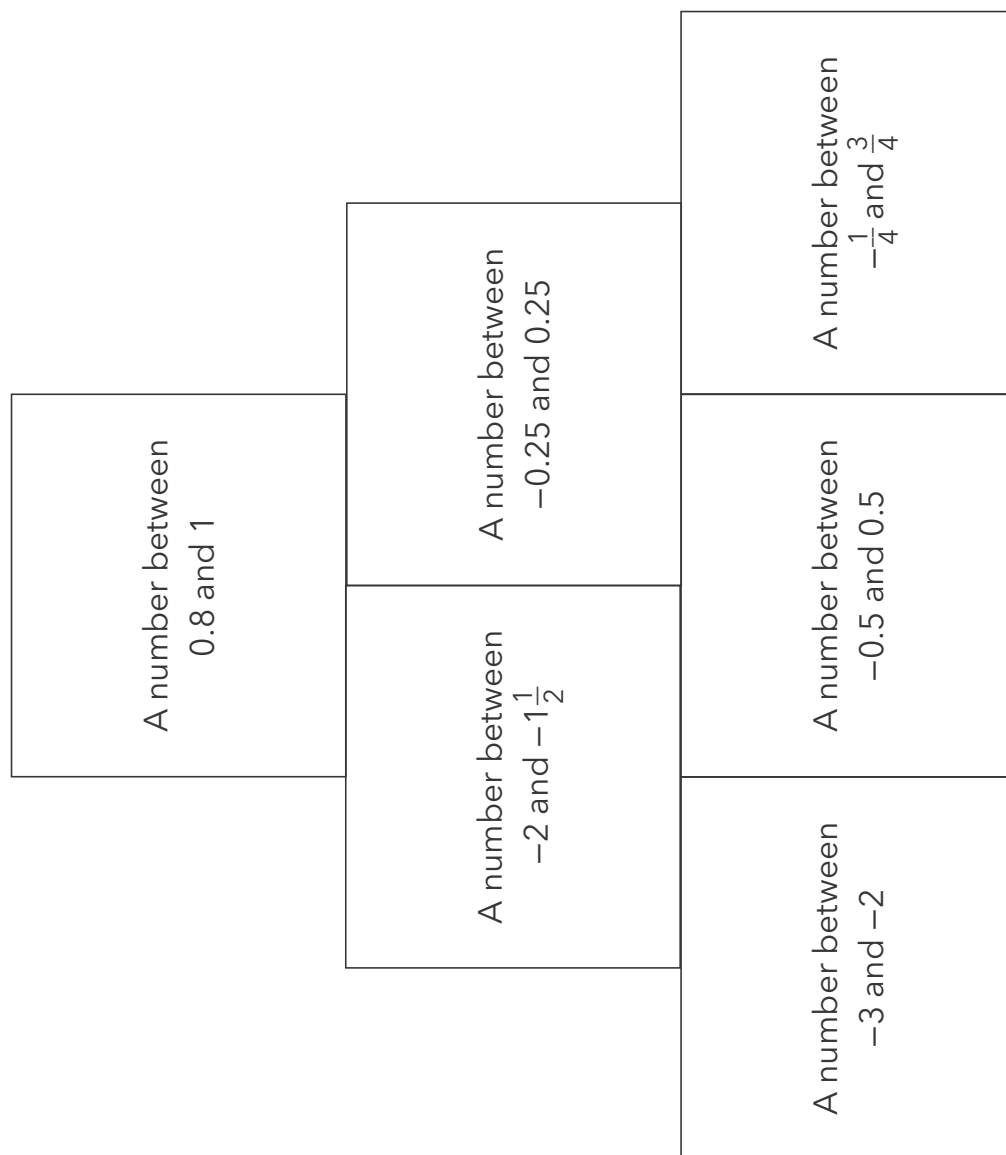• Deal 1 of each Format card to each player.

Play:
• Choose Number cards from your hand and Format cards as needed
  to build a number that fits one of the spaces on the Pyramid.
  Begin with the bottom row and move up. Complete each row before
  moving to the next row.

• Check each other's expressions and numbers.

• Place a counter on your Pyramid space.

• Take turns.

Winning:
• The first player (or team) to build a number for the top of the
  pyramid wins!

Pyramid Tower
Game Board—Print 1 per player or team.

A number between
0.8 and 1

A number between
−0.25 and 0.25

A number between
−2 and $-1\frac{1}{2}$

A number between
$-\frac{1}{4}$ and $\frac{3}{4}$

A number between
−0.5 and 0.5

A number between
−3 and −2

3

2

1

0

−1

−2

−3

Pyramid Tower
Number Cards—Print 4 times for 1 deck.

0	0	1
1	2	3
4	5	6
7	8	9

Pyramid Tower
Format Cards—Print 2 times for 1 deck.

− (negative)	− (negative)	− (negative)
+ (positive)	+ (positive)	+ (positive)
— (fraction bar)	— (fraction bar)	— (fraction bar)
• (decimal point)	• (decimal point)	• (decimal point)