

Teaching Resources

# Simplifying Fractions Game

# Simplify & Snap

Includes QR Codes and Answer Keys

Level B #7

Level B #8

Laura Candler

## Simplify & Snap

by Laura Candler

Level B

Level A #3

**Simplify & Snap** is an engaging task card review game that's perfect for math centers or using with cooperative learning teams. The directions are easy to understand, and the game is loads of fun! Players earn snap cubes for simplifying fractions correctly, and they snap their cubes together to form towers. The player with the tallest tower at the end of the game wins! The game includes two types of task cards, traditional cards with an answer key and cards with QR code answers to scan with a mobile device.

**Simplify & Snap** has fraction cards on three different levels, and each level has 10 cards. You can start students out on Level A and let them work their way up to Level C, or you can shuffle the cards together and use them all at once. A blank fraction card template is also included for creating your own task cards. In addition, you'll find optional student recording pages that can be used for students to write their answers if you want a record of their progress.

**Advanced Preparation Tips**  
Most of the materials you need for the game are included in this packet, but you do need a few other items such as a countdown timer and individual dry erase boards. If you don't have dry erase boards, paper and pencil will work.

Before you print any of the game materials, look through this packet and decide which sets of fraction cards are appropriate for your class. Decide whether you want to use the QR code task cards or the regular task cards with traditional answer keys. Print the task cards and answer key for each level on a different color card stock or construction paper and laminate them before using. Store each set with its answer key in an envelope, and label it with the level of the set.

**Printables Needed For Each Group**

- 1 copy of the Simplify & Snap game directions (page 5 or 6)
- 1 set of fraction task cards (Level A, B, or C)
- Answer key (if not using QR code task cards)

**Other Materials Needed**

- 10 snap cubes per player
- 1 stopwatch, countdown timer, or minute sand timer
- 1 mobile device with QR reader app (optional)
- 1 calculator (optional)
- 1 dry erase board and marker per student OR
- Paper and pencil

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### How to Use the QR Code Task Cards

QR stands for "Quick Response," and QR codes are patterned squares that you can scan with just about any mobile device. They work really well as a replacement for answer keys in center activities and games. To learn more about why they are so effective and how to use them, read my Corkboard Connections blog post, [Out With Answer Keys—In with QR Codes!](#)

I've created QR code answers for all the task cards in this product. You don't have to use them because I also included plain task cards with a printable answer key for each set. However, if you have at least one mobile device with a camera for each team, you should give them a try because your students will love them! Install the free QR Reader app, open it, and point the camera at one of the QR codes on the right to see how it works. It's easy!

**Fraction Formatting Issues with QR Codes:** Because the QR code answers had to be entered in plain text, I was not able to create fraction answers in the vertical format commonly used in elementary school. Instead, I had to write the fractions horizontally with a diagonal bar between the numerator and denominator. For example, the answer to the fraction task card shown here appears as 1/3 when scanned. Be sure to explain this to your students and show them a few examples before they play the game.

$\frac{1}{3} = 1/3$

**Introducing Simplify & Snap to Students**  
Simplify & Snap is a review game for developing speed and accuracy with renaming fractions in lowest terms. It's intended to be used a follow-up activity after teaching the skill using fraction models. If you've introduced that skill in the past, give your students a few practice problems for review before you teach them how to play the game. If you discover that most students need more instruction on how to simplify fractions, you can reteach the skill in a small group setting after introducing the game to the class.

When you're ready to introduce the game, display the basic Simplify & Snap directions or the QR Code directions, and ask a volunteer to play the game with you in front of the class. Model each step of the activity as you explain what to do. If you have calculators that have a function for simplifying fractions, demonstrate how to use this feature for checking answers, or print a paper answer key for each game. The game does not require students to record their answers anywhere other than on a dry erase board, but if you would like a record of their work, you can use the student recording pages in this packet.

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## Simplify & Snap

### Game Directions, Answer Key, and Recording Page

For All Levels

**Basic Game Directions**

**QR Code Directions**

**Student Recording Page (1 page with 3 levels)**

**Answer Key (1 page with 3 levels)**

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**Basic Game Directions**

# Simplify & Snap

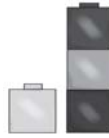
**Players:** 2 to 4

**Materials**

Deck of Fraction Cards, 10 snap cubes per player, countdown timer, calculator or answer key, dry erase boards & markers or paper & pencil

**Directions**

1. Shuffle the fraction task cards and place them face down in the middle of the players. Place the answer key face down next to the cards. The Leader flips over the top card, reads it aloud, and sets the timer for 1 minute.
2. Without talking, everyone simplifies the fraction and records it in lowest terms. As players finish, they turn their dry erase boards or papers face down to hide their answers.
3. When everyone is ready or the timer goes off, all players show their answers to each other. The Leader looks at the key or uses the calculator to find the correct answer.
4. The Leader gives one snap cube to everyone who simplified the fraction correctly. If anyone did not get the correct answer, the team discusses the problem until everyone understands how to solve it.
5. As players win more snap cubes, each person snaps his or her cubes together to form a tower.
6. Rotate the role of Leader clockwise for each round of the game.
7. The game ends when all fraction cards in the deck have been used. The winner is the player with the tallest tower of cubes.



**QR Code Game Directions**

# Simplify & Snap

**Players:** 2 to 4

**Materials**

Deck of Fraction Cards with QR codes, 10 snap cubes per player, countdown timer, mobile device with QR Reader app, dry erase boards & markers or paper & pencil

**Directions**

1. Shuffle the fraction task cards and place them face down in front of the players. The Leader flips the top card face up and sets the timer for 1 minute.
2. Without talking, everyone simplifies the fraction and records it in lowest terms. As players finish, they turn their dry erase boards or papers face down to hide their answers.
3. When everyone is ready or the timer goes off, all players show their answers to each other. The Leader scans the QR code to find the correct answer.
4. The Leader gives one snap cube to everyone who simplified the fraction correctly. If anyone did not get the correct answer, the team discusses the problem until everyone understands how to solve it.
5. As players win more snap cubes, each person snaps his or her cubes together to form a tower.
6. Rotate the role of Leader clockwise for each round of the game.
7. The game ends when all fraction cards in the deck have been used. The winner is the player with the tallest tower of cubes.



Name \_\_\_\_\_  
Date \_\_\_\_\_



**Simplify & Snap**  
Answer Recording Page

Level A		Level B										Level C									
1		1		2		3		4		5		6		7		8		9		10	
2		2		3		4		5		6		7		8		9		10			
3		3		4		5		6		7		8		9		10					
4		4		5		6		7		8		9		10							
5		5		6		7		8		9		10									
6		6		7		8		9		10											
7		7		8		9		10													
8		8		9		10															
9		9		10																	
10		10																			

**Answer Key (All Levels)**



**Simplify & Snap**

Level A		Level B										Level C									
1	1/2	1/2	2/3	2/3	3/4	3/4	4/5	4/5	5/6	5/6	6/7	6/7	7/8	7/8	8/9	8/9	9/10	9/10	10/10	10/10	
2	1/5	1/5	2/5	2/5	3/5	3/5	4/5	4/5	5/5	5/5	6/5	6/5	7/5	7/5	8/5	8/5	9/5	9/5	10/5	10/5	
3	1/3	1/3	2/3	2/3	3/3	3/3	4/3	4/3	5/3	5/3	6/3	6/3	7/3	7/3	8/3	8/3	9/3	9/3	10/3	10/3	
4	1/4	1/4	2/4	2/4	3/4	3/4	4/4	4/4	5/4	5/4	6/4	6/4	7/4	7/4	8/4	8/4	9/4	9/4	10/4	10/4	
5	1/3	1/3	2/3	2/3	3/3	3/3	4/3	4/3	5/3	5/3	6/3	6/3	7/3	7/3	8/3	8/3	9/3	9/3	10/3	10/3	
6	1/3	1/3	2/3	2/3	3/3	3/3	4/3	4/3	5/3	5/3	6/3	6/3	7/3	7/3	8/3	8/3	9/3	9/3	10/3	10/3	
7	1/2	1/2	2/2	2/2	3/2	3/2	4/2	4/2	5/2	5/2	6/2	6/2	7/2	7/2	8/2	8/2	9/2	9/2	10/2	10/2	
8	1/4	1/4	2/4	2/4	3/4	3/4	4/4	4/4	5/4	5/4	6/4	6/4	7/4	7/4	8/4	8/4	9/4	9/4	10/4	10/4	
9	2/3	2/3	3/3	3/3	4/3	4/3	5/3	5/3	6/3	6/3	7/3	7/3	8/3	8/3	9/3	9/3	10/3	10/3			
10	1/3	1/3	2/3	2/3	3/3	3/3	4/3	4/3	5/3	5/3	6/3	6/3	7/3	7/3	8/3	8/3	9/3	9/3	10/3	10/3	

# Simplify & Snap Fraction Cards

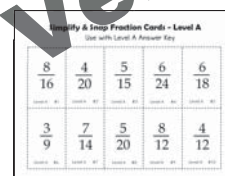


# Simplify & Snap Level A

Task Card Options, Answer Key, and Student Recording Page



Cards with QR Codes



Cards without QR Codes



Student Recording Page



Answer Key

# Simplify & Snap Fraction Cards - Level A

With QR Code Answers

$\frac{8}{16}$ Level A #1	$\frac{4}{20}$ Level A #2	$\frac{5}{15}$ Level A #3	$\frac{6}{18}$ Level A #5
$\frac{3}{9}$ Level A #6	$\frac{7}{14}$ Level A #7	$\frac{5}{20}$ Level A #8	$\frac{4}{12}$ Level A #10
$\frac{6}{24}$ Level A #4	$\frac{8}{12}$ Level A #9		

# Simplify & Snap Fraction Cards - Level A

Use with Level A Answer Key

$\frac{8}{16}$ Level A #1	$\frac{4}{20}$ Level A #2	$\frac{5}{15}$ Level A #3	$\frac{6}{18}$ Level A #5
$\frac{3}{9}$ Level A #6	$\frac{7}{14}$ Level A #7	$\frac{5}{20}$ Level A #8	$\frac{4}{12}$ Level A #10
$\frac{6}{24}$ Level A #4	$\frac{8}{12}$ Level A #9		

**Simplify & Snap**

**Level A Answers**

1	$\frac{1}{2}$
2	$\frac{1}{5}$
3	$\frac{1}{3}$
4	$\frac{1}{4}$
5	$\frac{1}{3}$
6	$\frac{1}{3}$
7	$\frac{1}{2}$
8	$\frac{1}{4}$
9	$\frac{2}{3}$
10	$\frac{1}{3}$

**Simplify & Snap**

**Level A Answers**

1	$\frac{1}{2}$
2	$\frac{1}{5}$
3	$\frac{1}{3}$
4	$\frac{1}{4}$
5	$\frac{1}{3}$
6	$\frac{1}{3}$
7	$\frac{1}{2}$
8	$\frac{1}{4}$
9	$\frac{2}{3}$
10	$\frac{1}{3}$

**Simplify & Snap**

**Level A Answers**

1	$\frac{1}{2}$
2	$\frac{1}{5}$
3	$\frac{1}{3}$
4	$\frac{1}{4}$
5	$\frac{1}{3}$
6	$\frac{1}{3}$
7	$\frac{1}{2}$
8	$\frac{1}{4}$
9	$\frac{2}{3}$
10	$\frac{1}{3}$

**Simplify & Snap**

**Level A Answers**

1	$\frac{1}{2}$
2	$\frac{1}{5}$
3	$\frac{1}{3}$
4	$\frac{1}{4}$
5	$\frac{1}{3}$
6	$\frac{1}{3}$
7	$\frac{1}{2}$
8	$\frac{1}{4}$
9	$\frac{2}{3}$
10	$\frac{1}{3}$

**Simplify & Snap**

Name \_\_\_\_\_

Level A	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Simplify & Snap**

Name \_\_\_\_\_

Level A	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Simplify & Snap**

Name \_\_\_\_\_

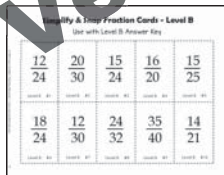
Level A	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

# Simplify & Snap Level B

Task Card Options, Answer Key,  
and Student Recording Page



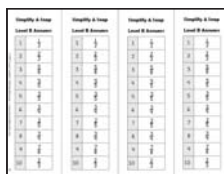
Cards with QR Codes



Cards without QR Codes



Student Recording Page



Answer Key

## Simplify & Snap Fraction Cards - Level B

With QR Code Answers

$\frac{12}{24}$  Level B #1	$\frac{20}{30}$  Level B #2	$\frac{15}{24}$  Level B #3	$\frac{16}{20}$  Level B #4	$\frac{15}{25}$  Level B #5
$\frac{18}{24}$  Level B #6	$\frac{12}{30}$  Level B #7	$\frac{24}{32}$  Level B #8	$\frac{35}{40}$  Level B #9	$\frac{14}{21}$  Level B #10



# Simplify & Snap Fraction Cards - Level B

Use with Level B Answer Key

$\frac{12}{24}$ Level B #1	$\frac{20}{30}$ Level B #2	$\frac{15}{24}$ Level B #3	$\frac{16}{20}$ Level B #4	$\frac{15}{25}$ Level B #5
$\frac{18}{24}$ Level B #6	$\frac{12}{30}$ Level B #7	$\frac{24}{32}$ Level B #8	$\frac{35}{40}$ Level B #9	$\frac{14}{21}$ Level B #10

## Simplify & Snap

### Level B Answer Key

1	$\frac{1}{2}$
2	$\frac{2}{3}$
3	$\frac{5}{8}$
4	$\frac{1}{5}$
5	$\frac{3}{5}$
6	$\frac{3}{4}$
7	$\frac{2}{5}$
8	$\frac{3}{4}$
9	$\frac{7}{8}$
10	$\frac{2}{3}$

## Simplify & Snap

### Level B Answer Key

1	$\frac{1}{2}$
2	$\frac{2}{3}$
3	$\frac{5}{8}$
4	$\frac{1}{5}$
5	$\frac{3}{5}$
6	$\frac{3}{4}$
7	$\frac{2}{5}$
8	$\frac{3}{4}$
9	$\frac{7}{8}$
10	$\frac{2}{3}$

## Simplify & Snap

### Level B Answer Key

1	$\frac{1}{2}$
2	$\frac{2}{3}$
3	$\frac{5}{8}$
4	$\frac{1}{5}$
5	$\frac{3}{5}$
6	$\frac{3}{4}$
7	$\frac{2}{5}$
8	$\frac{3}{4}$
9	$\frac{7}{8}$
10	$\frac{2}{3}$

## Simplify & Snap

### Level B Answer Key

1	$\frac{1}{2}$
2	$\frac{2}{3}$
3	$\frac{5}{8}$
4	$\frac{1}{5}$
5	$\frac{3}{5}$
6	$\frac{3}{4}$
7	$\frac{2}{5}$
8	$\frac{3}{4}$
9	$\frac{7}{8}$
10	$\frac{2}{3}$

## Simplify & Snap

Name \_\_\_\_\_

Level B	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

## Simplify & Snap

Name \_\_\_\_\_

Level B	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

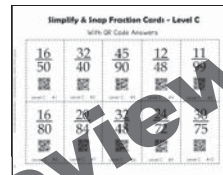
## Simplify & Snap

Name \_\_\_\_\_

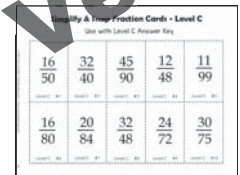
Level B	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

# Simplify & Snap Level C

Task Card Options, Answer Key, and Student Recording Page



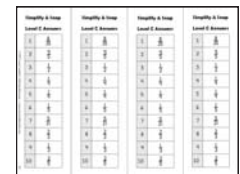
Cards with QR Codes



Cards without QR Codes



Student Recording Page



Answer Key

# Simplify & Snap Fraction Cards - Level C

With QR Code Answers

Level C #1 $\frac{16}{50}$ QR Code	Level C #2 $\frac{32}{40}$ QR Code	Level C #3 $\frac{45}{90}$ QR Code	Level C #4 $\frac{12}{48}$ QR Code	Level C #5 $\frac{11}{99}$ QR Code
Level C #6 $\frac{16}{80}$ QR Code	Level C #7 $\frac{20}{84}$ QR Code	Level C #8 $\frac{32}{48}$ QR Code	Level C #9 $\frac{24}{72}$ QR Code	Level C #10 $\frac{30}{75}$ QR Code

# Simplify & Snap Fraction Cards - Level C

Use with Level C Answer Key

Level C #1 $\frac{16}{50}$	Level C #2 $\frac{32}{40}$	Level C #3 $\frac{45}{90}$	Level C #4 $\frac{12}{48}$	Level C #5 $\frac{11}{99}$
Level C #6 $\frac{16}{80}$	Level C #7 $\frac{20}{84}$	Level C #8 $\frac{32}{48}$	Level C #9 $\frac{24}{72}$	Level C #10 $\frac{30}{75}$

## Simplify & Snap

### Level C Answers

1	$\frac{8}{25}$
2	$\frac{4}{5}$
3	$\frac{1}{2}$
4	$\frac{1}{4}$
5	$\frac{1}{9}$
6	$\frac{1}{5}$
7	$\frac{5}{21}$
8	$\frac{2}{3}$
9	$\frac{1}{3}$
10	$\frac{2}{5}$

## Simplify & Snap

### Level C Answers

1	$\frac{8}{25}$
2	$\frac{4}{5}$
3	$\frac{1}{2}$
4	$\frac{1}{4}$
5	$\frac{1}{9}$
6	$\frac{1}{5}$
7	$\frac{5}{21}$
8	$\frac{2}{3}$
9	$\frac{1}{3}$
10	$\frac{2}{5}$

## Simplify & Snap

### Level C Answers

1	$\frac{8}{25}$
2	$\frac{4}{5}$
3	$\frac{1}{2}$
4	$\frac{1}{4}$
5	$\frac{1}{9}$
6	$\frac{1}{5}$
7	$\frac{5}{21}$
8	$\frac{2}{3}$
9	$\frac{1}{3}$
10	$\frac{2}{5}$

## Simplify & Snap

### Level C Answers

1	$\frac{8}{25}$
2	$\frac{4}{5}$
3	$\frac{1}{2}$
4	$\frac{1}{4}$
5	$\frac{1}{9}$
6	$\frac{1}{5}$
7	$\frac{5}{21}$
8	$\frac{2}{3}$
9	$\frac{1}{3}$
10	$\frac{2}{5}$

## Simplify & Snap

Name \_\_\_\_\_

Level C
1
2
3
4
5
6
7
8
9
10

## Simplify & Snap

Name \_\_\_\_\_

Level C
1
2
3
4
5
6
7
8
9
10

## Simplify & Snap

Name \_\_\_\_\_

Level C
1
2
3
4
5
6
7
8
9
10

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Laura

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