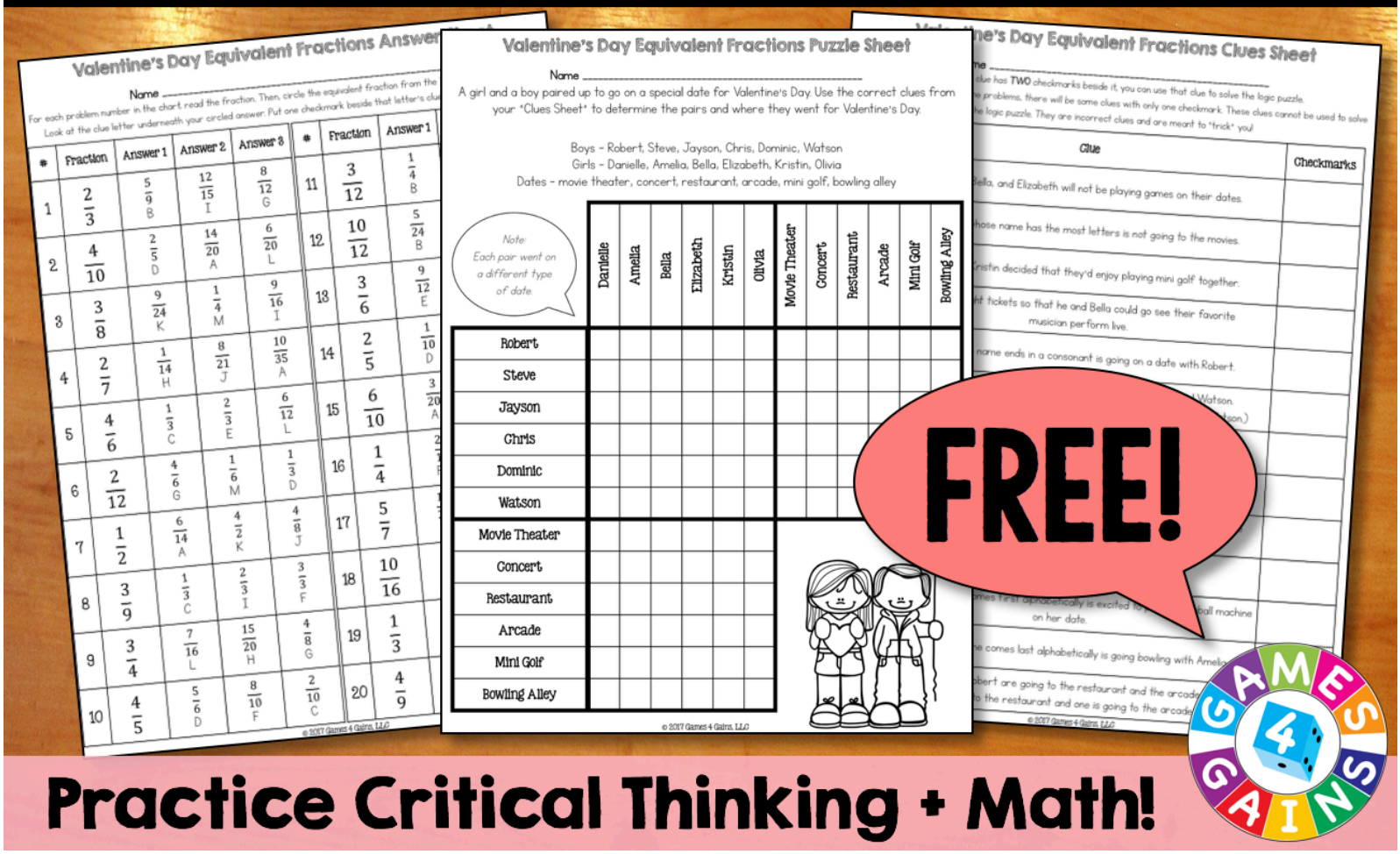
VALENTINE'S DAY

Equivalent Fractions

MATH LOGIC PUZZLE



Practice Critical Thinking + Math!

Thank You!

I'd like to thank you for purchasing this resource. I sincerely hope that it helps your students to practice these skills in a meaningful and engaging way - and that they have fun in the process!

Much gratitude,
Brittney

P.S. If you found this resource useful, please consider leaving your feedback. I love reading your comments!

P.P.S. If you encounter any issues with this file, please email me directly at brittney@games4gains.com. I am more than happy to try to help you!

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Valentine's Day Equivalent Fractions Logic Puzzle

Activity Setup

In this packet, you will find:

- Instructions for use
- Answer Sheet
- Clues Sheet
- Puzzle Sheet
- Answer keys

Other materials you will need:

- Pencils

Preparation:

1. Print the three activity pages (Answer Sheet, Clues Sheet, and Puzzle Sheet) for each student.
2. Print the answer keys, if needed.
3. Give one set of activity pages to each student.

Valentine's Day Equivalent Fractions Logic Puzzle

Instructions

Completing the activity:

1. Look at your Answer Sheet. For each problem number, circle the correct answer. Then, look at the letter underneath your circled answer. Turn to your Clues Sheet and put one checkmark beside the clue for just that letter.
2. Repeat until you have done the same for every problem.
3. On your Clues Sheet, highlight the clues with TWO checkmarks. These are the ONLY clues that you'll use to solve the logic puzzle on your Puzzle Sheet. *Note: Clues with only one checkmark should not be used to solve any part of the logic puzzle. In fact, it may be easier to cross these clues out.*
4. Use the clues with two checkmarks to eliminate any possibilities on the logic puzzle by marking an X. If the clue confirms a possibility, mark an O. ***If you do not know how to solve logic puzzles, here's an excellent resource to get you started: http://bit.ly/LogicPuzzle***
5. Work through the clues and the logic puzzle until you get to the final answer.

Valentine's Day Equivalent Fractions Answer Sheet

Name _____

For each problem number in the chart, read the fraction. Then, circle the equivalent fraction from the 3 answer choices beside it. Look at the clue letter underneath your circled answer. Put one checkmark beside that letter's clue on your "Clues Sheet."

#	Fraction	Answer 1	Answer 2	Answer 3
1	$\frac{2}{3}$	$\frac{5}{9}$ B	$\frac{12}{15}$ I	$\frac{8}{12}$ G
2	$\frac{4}{10}$	$\frac{2}{5}$ D	$\frac{14}{20}$ A	$\frac{6}{20}$ L
3	$\frac{3}{8}$	$\frac{9}{24}$ K	$\frac{1}{4}$ M	$\frac{9}{16}$ I
4	$\frac{2}{7}$	$\frac{1}{14}$ H	$\frac{8}{21}$ J	$\frac{10}{35}$ A
5	$\frac{4}{6}$	$\frac{1}{3}$ C	$\frac{2}{3}$ E	$\frac{6}{12}$ L
6	$\frac{2}{12}$	$\frac{4}{6}$ G	$\frac{1}{6}$ M	$\frac{1}{3}$ D
7	$\frac{1}{2}$	$\frac{6}{14}$ A	$\frac{4}{2}$ K	$\frac{4}{8}$ J
8	$\frac{3}{9}$	$\frac{1}{3}$ C	$\frac{2}{3}$ I	$\frac{3}{3}$ F
9	$\frac{3}{4}$	$\frac{7}{16}$ L	$\frac{15}{20}$ H	$\frac{4}{8}$ G
10	$\frac{4}{5}$	$\frac{5}{6}$ D	$\frac{8}{10}$ F	$\frac{2}{10}$ C

#	Fraction	Answer 1	Answer 2	Answer 3
11	$\frac{3}{12}$	$\frac{1}{4}$ B	$\frac{2}{6}$ F	$\frac{1}{3}$ C
12	$\frac{10}{12}$	$\frac{5}{24}$ B	$\frac{12}{24}$ J	$\frac{5}{6}$ L
13	$\frac{3}{6}$	$\frac{9}{12}$ E	$\frac{1}{2}$ I	$\frac{6}{18}$ H
14	$\frac{2}{5}$	$\frac{1}{10}$ D	$\frac{12}{30}$ L	$\frac{12}{15}$ M
15	$\frac{6}{10}$	$\frac{3}{20}$ A	$\frac{16}{20}$ K	$\frac{3}{5}$ C
16	$\frac{1}{4}$	$\frac{2}{1}$ F	$\frac{5}{16}$ M	$\frac{2}{8}$ I
17	$\frac{5}{7}$	$\frac{15}{35}$ G	$\frac{10}{14}$ D	$\frac{25}{42}$ E
18	$\frac{10}{16}$	$\frac{5}{8}$ M	$\frac{2}{4}$ J	$\frac{2}{8}$ B
19	$\frac{1}{3}$	$\frac{6}{18}$ F	$\frac{6}{9}$ K	$\frac{13}{30}$ G
20	$\frac{4}{9}$	$\frac{24}{27}$ H	$\frac{16}{36}$ A	$\frac{2}{3}$ E

Valentine's Day Equivalent Fractions Clues Sheet

Name _____

As soon as a clue has TWO checkmarks beside it, you can use that clue to solve the logic puzzle.

Once you have solved all of the problems, there will be some clues with only one checkmark. These clues cannot be used to solve the logic puzzle. They are incorrect clues and are meant to "trick" you!

Letter	Clue	Checkmarks
A	Danielle, Bella, and Elizabeth will not be playing games on their dates.	
B	The girl whose name has the most letters is not going to the movies.	
C	Chris and Kristin decided that they'd enjoy playing mini golf together.	
D	Steve bought tickets so that he and Bella could go see their favorite musician perform live.	
E	A girl whose name ends in a consonant is going on a date with Robert.	
F	Amelia and Olivia are excited for their dates with Robert and Watson. (One is going on a date with Robert and one is going on a date with Watson.)	
G	Neither Chris nor Bella will be playing mini golf on their dates.	
H	Dominic and Steve think that going to a restaurant is a boring idea for a date.	
I	The boy and girl whose name begins with the same letter are going on a date together.	
J	Elizabeth is excited for her date with Watson.	
K	The girl whose name comes first alphabetically is excited to play the pinball machine on her date.	
L	The boy whose name comes last alphabetically is going bowling with Amelia.	
M	Dominic and Robert are going to the restaurant and the arcade. (One is going to the restaurant and one is going to the arcade.)	

Valentine's Day Equivalent Fractions Puzzle Sheet

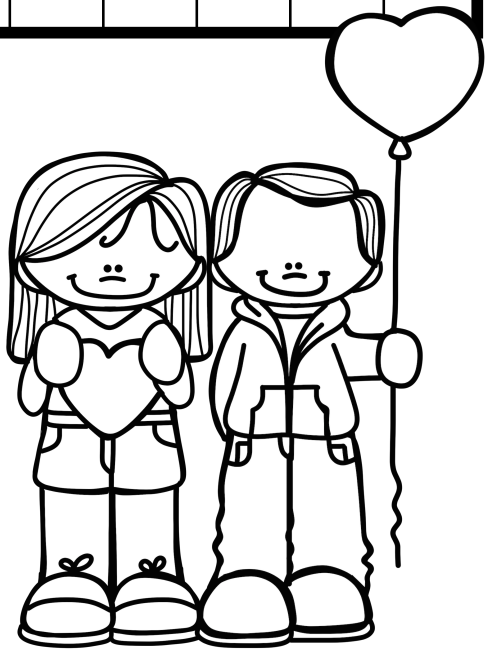
Name _____

A girl and a boy paired up to go on a special date for Valentine's Day. Use the correct clues from your "Clues Sheet" to determine the pairs and where they went for Valentine's Day.

Boys - Robert, Steve, Jayson, Chris, Dominic, Watson
Girls - Danielle, Amelia, Bella, Elizabeth, Kristin, Olivia
Dates - movie theater, concert, restaurant, arcade, mini golf, bowling alley

Note: Each pair went on a different type of date.

	Danielle	Amelia	Bella	Elizabeth	Kristin	Olivia	Movie Theater	Concert	Restaurant	Arcade	Mini Golf	Bowling Alley
Robert												
Steve												
Jayson												
Chris												
Dominic												
Watson												
Movie Theater												
Concert												
Restaurant												
Arcade												
Mini Golf												
Bowling Alley												



Valentine's Day Equivalent Fractions Answer Sheet

ANSWER KEY

#	Fraction	Answer 1	Answer 2	Answer 3
1	$\frac{2}{3}$	$\frac{5}{9}$ B	$\frac{12}{15}$ I	$\frac{8}{12}$ G
2	$\frac{4}{10}$	$\frac{2}{5}$ D	$\frac{14}{20}$ A	$\frac{6}{20}$ L
3	$\frac{3}{8}$	$\frac{9}{24}$ K	$\frac{1}{4}$ M	$\frac{9}{16}$ I
4	$\frac{2}{7}$	$\frac{1}{14}$ H	$\frac{8}{21}$ J	$\frac{10}{35}$ A
5	$\frac{4}{6}$	$\frac{1}{3}$ C	$\frac{2}{3}$ E	$\frac{6}{12}$ L
6	$\frac{2}{12}$	$\frac{4}{6}$ G	$\frac{1}{6}$ M	$\frac{1}{3}$ D
7	$\frac{1}{2}$	$\frac{6}{14}$ A	$\frac{4}{2}$ K	$\frac{4}{8}$ J
8	$\frac{3}{9}$	$\frac{1}{3}$ C	$\frac{2}{3}$ I	$\frac{3}{3}$ F
9	$\frac{3}{4}$	$\frac{7}{16}$ L	$\frac{15}{20}$ H	$\frac{4}{8}$ G
10	$\frac{4}{5}$	$\frac{5}{6}$ D	$\frac{8}{10}$ F	$\frac{2}{10}$ C

#	Fraction	Answer 1	Answer 2	Answer 3
11	$\frac{3}{12}$	$\frac{1}{4}$ B	$\frac{2}{6}$ F	$\frac{1}{3}$ C
12	$\frac{10}{12}$	$\frac{5}{24}$ B	$\frac{12}{24}$ J	$\frac{5}{6}$ L
13	$\frac{3}{6}$	$\frac{9}{12}$ E	$\frac{1}{2}$ I	$\frac{6}{18}$ H
14	$\frac{2}{5}$	$\frac{1}{10}$ D	$\frac{12}{30}$ L	$\frac{12}{15}$ M
15	$\frac{6}{10}$	$\frac{3}{20}$ A	$\frac{16}{20}$ K	$\frac{3}{5}$ C
16	$\frac{1}{4}$	$\frac{2}{1}$ F	$\frac{5}{16}$ M	$\frac{2}{8}$ I
17	$\frac{5}{7}$	$\frac{15}{35}$ G	$\frac{10}{14}$ D	$\frac{25}{42}$ E
18	$\frac{10}{16}$	$\frac{5}{8}$ M	$\frac{2}{4}$ J	$\frac{2}{8}$ B
19	$\frac{1}{3}$	$\frac{6}{18}$ F	$\frac{6}{9}$ K	$\frac{13}{30}$ G
20	$\frac{4}{9}$	$\frac{24}{27}$ H	$\frac{16}{36}$ A	$\frac{2}{3}$ E

Valentine's Day Equivalent Fractions Clues Sheet

ANSWER KEY

Letter	Clue	Checkmarks
A	Danielle, Bella, and Elizabeth will not be playing games on their dates.	✓✓
B	The girl whose name has the most letters is not going to the movies.	✓
C	Chris and Kristin decided that they'd enjoy playing mini golf together.	✓✓
D	Steve bought tickets so that he and Bella could go see their favorite musician perform live.	✓✓
E	A girl whose name ends in a consonant is going on a date with Robert.	✓
F	Amelia and Olivia are excited for their dates with Robert and Watson. (One is going on a date with Robert and one is going on a date with Watson.)	✓✓
G	Neither Chris nor Bella will be playing mini golf on their dates.	✓
H	Dominic and Steve think that going to a restaurant is a boring idea for a date.	✓
I	The boy and girl whose name begins with the same letter are going on a date together.	✓✓
J	Elizabeth is excited for her date with Watson.	✓
K	The girl whose name comes first alphabetically is excited to play the pinball machine on her date.	✓
L	The boy whose name comes last alphabetically is going bowling with Amelia.	✓✓
M	Dominic and Robert are going to the restaurant and the arcade. (One is going to the restaurant and one is going to the arcade.)	✓✓

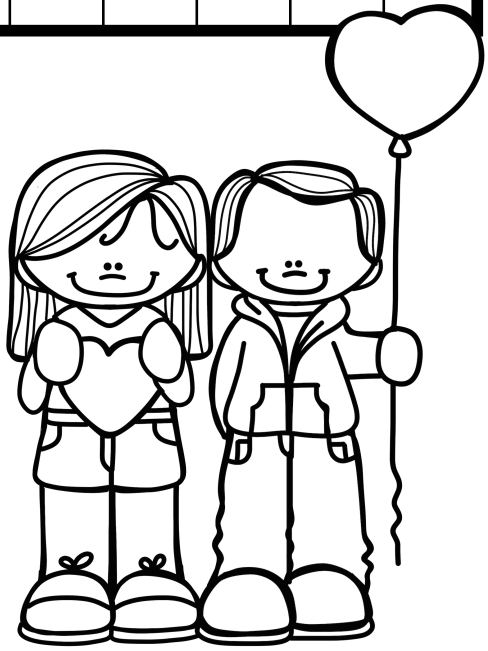
Valentine's Day Equivalent Fractions Puzzle Sheet

ANSWER KEY

Robert & Olivia - arcade
Steve & Bella - concert
Jayson & Elizabeth - movie theater
Chris & Kristin - mini golf
Dominic & Danielle - restaurant
Watson & Amelia - bowling alley

Note: Each pair went on a different type of date.

	Danielle	Amelia	Bella	Elizabeth	Kristin	Olivia	Movie Theater	Concert	Restaurant	Arcade	Mini Golf	Bowling Alley
Robert	X	X	X	X	X	O	X	X	X	O	X	X
Steve	X	X	O	X	X	X	X	O	X	X	X	X
Jayson	X	X	X	O	X	X	O	X	X	X	X	X
Chris	X	X	X	X	O	X	X	X	X	X	O	X
Dominic	O	X	X	X	X	X	X	X	O	X	X	X
Watson	X	O	X	X	X	X	X	X	X	X	X	O
Movie Theater	X	X	X	O	X	X						
Concert	X	X	O	X	X	X						
Restaurant	O	X	X	X	X	X						
Arcade	X	X	X	X	X	O						
Mini Golf	X	X	X	X	O	X						
Bowling Alley	X	O	X	X	X	X						



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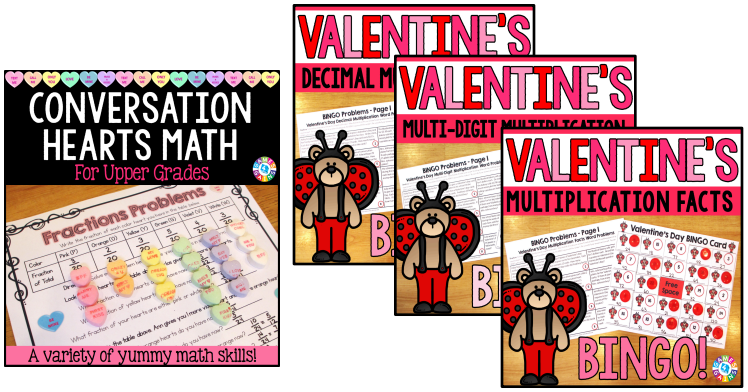
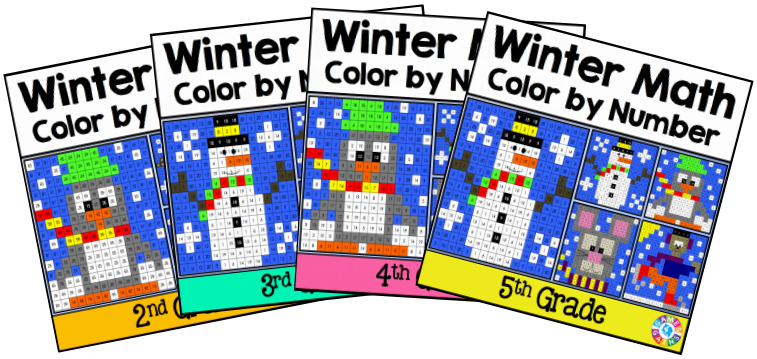
Valentine's Day Math Color-by-Number



Valentine's Day Math Activities

Reading Skills Board Games



Winter Math Color-by-Number

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