

Number Comparisons

The purpose of these games are to compare fractions, decimals, and percentages. Print out all of the cards or just the type of number that you are working on. If you are only using one type of card you may want to print multiple sets to have more cards.

Comparison War:

The game is played like War. Split the cards evenly between players. Each player turns over the top card. The largest amount takes the cards. If there is a tie, each player turns over their next top card. The winning amount takes all of the cards. Continue playing until one player has all of the cards.

Matching Pairs:

Only use cards that have an equivalent match. Place all of the matches face down in rows. Players take turns drawing two cards. If the cards are equivalent, they get to keep both cards. Play continues until all of the cards are gone. The player with the most cards at the end is the winner.

Go Fish:

Only use cards that have an equivalent match. Players each start with five cards. They take turns asking another player for a card that is equivalent to a card that they are holding. If the person does not have a match, they tell the player to “Go Fish.” The player draws a card from the pile of extra cards to try to make a match.

Ordering Race:

Each player is dealt five cards. They put their cards in order from least to greatest. The first player to correctly arrange their cards gets a point. Play continues until a player gets ten points.

Equivalent Matches

$\frac{1}{10}$		0.1	10%
$\frac{1}{5}$	$\frac{2}{10}$	0.2	20%
$\frac{3}{10}$		0.3	30%
$\frac{2}{5}$	$\frac{4}{10}$	0.4	40%
$\frac{1}{2}$	$\frac{5}{10}$	0.5	50%
$\frac{3}{5}$	$\frac{6}{10}$	0.6	60%

Equivalent Matches

$\frac{7}{10}$		0.7	70%
$\frac{4}{5}$	$\frac{8}{10}$	0.8	80%
$\frac{9}{10}$		0.9	90%
		1	100%
$\frac{1}{4}$		0.25	25%
$\frac{3}{4}$		0.75	75%

Equivalent Matches

$\frac{1}{3}$	0.3̄	33.̄%
$\frac{2}{3}$	0.6̄	66.̄%
$\frac{1}{6}$	16.̄	16.̄%
$\frac{5}{6}$	0.8̄	83.̄%

$$\frac{1}{10}$$

$$\frac{1}{5}$$

$$\frac{3}{10}$$

$$\frac{2}{5}$$

$$\frac{1}{2}$$

$$\frac{3}{5}$$

$$\frac{5}{5}$$

$$\frac{2}{2}$$

$$\frac{5}{5}$$

$$\frac{7}{10}$$

$$\frac{4}{5}$$

$$\frac{9}{10}$$

$$\frac{10}{10}$$

$$\frac{5}{5}$$

$$\frac{10}{10}$$

$$\begin{array}{r} 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 8 \\ \hline 10 \end{array}$$

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

1

0.25

0.75

0.33

0.66

16.66

0.83

10%

20%

30%

40%

50%

60%

70%

80%

90%

100%

25%

75%

33. $\bar{3}$ %

66. $\bar{6}$ %

16. $\bar{6}$ %

83. $\bar{3}$ %

Ready for more fraction and decimal activities?

The Missing Class Pet

Student Directions

1. Nibbles the hamster eats 0.35 ounces of food per day. If the class feeds Nibbles 0.35 ounces of food daily, how many ounces of food will Nibbles eat in 25 days?

2. If the answer has a number in the tens place, the room number is not a prime number.

3. If the answer does not have a number in the tens place, the room number is a prime number.

4. The class gecko's heat lamp uses 0.85 kilowatts of electricity per day. If it is left on for 20 days, how many total kilowatts of electricity will it use?

5. If the answer is a prime number, the room number does not have the number 7.

6. If the answer is a composite number, the room number does not have the number 7.

7. If the answer is a prime number, the room number is a palindrome number.

8. If the answer does not have a number in the hundreds place, the room number is not a palindrome number.

9. If the answer has a number in the hundreds place, the room number is a palindrome number.

10. If the answer is a prime number, the room number is a prime number. If the answer is a composite number, the room number is a composite number.

Math Mystery Challenge

A set of three fraction mobile puzzles on a brown background. Each puzzle consists of a mobile with a central circle containing a fraction, suspended from a horizontal bar by lines. The mobiles are composed of various shapes (squares, circles, triangles, diamonds, stars) in different colors (red, blue, green, yellow, orange). The fractions shown are 3/4, 6/6, and 6/3. The puzzles are labeled "Puzzle #1", "Puzzle #4", and "Puzzle #9". The bottom of the image features the text "12 Challenging Puzzles" in a large, bold, white font.

Which One Doesn't Belong? Fractions

3rd - 5th Grade

12 Challenging Math Problems

Who Stole the Candy?

Teacher Directions

This mystery will reinforce the understanding of adding fractions with unlike denominators. If you are using this with your class, print pages 5-10 (single-sided) and two pieces of the candy bar. Students can start at any page and be solved in any order. If using this with individual students, print pages 5-12 in a packet independently.

After solving each problem, record the answer to the sheet on page 11 **before moving to the next problem**. The information they suspect on page 12. Some suspect clues are listed on page 13.

When all the problems are solved, reinforce the students' favorite type of candy.

Students should record the problem, as well as the correct answer and room number to earn a badge.

Math Vocabulary

Numerator	The top number in a fraction.
Denominator	The bottom number in a fraction.
Simplest Form	A fraction is in simplest form when the numerator and denominator have no common factors.
Proper Fraction	A fraction is proper when the numerator is less than the denominator.

A

Sarah had $\frac{1}{4}$ of a chocolate bar. Her friend Tom gave her $\frac{1}{3}$ of another bar. How many total chocolate bars does Sarah have now?

B

Tom ate $\frac{3}{4}$ of a bag of gummy bears. His sister ate $\frac{1}{6}$ of the same bag. How much of the bag did she eat?

C

Tom's answer has an even numerator: The room number not have a 0.

D

Tom's answer has an odd numerator: The room number not have a 2.

© Shining Enrichment

Math Mystery Challenge

The image shows four mobile puzzles on a blue background.
Puzzle #1: A red circle at the top, with two red circles below it.
Puzzle #4: A blue hexagon at the top, with a blue hexagon, a red hexagon, and a red hexagon below it.
Puzzle #11: A red cylinder at the top, with a red cylinder, a purple cube, a purple cube, a green cylinder, and a green cylinder below it.
Puzzle #12: A red cylinder at the top, with a red cylinder, a red cylinder, a purple cube, a purple cube, a green cylinder, and a green cylinder below it.
A watermark '© Teaching Treasures' is visible at the bottom right of the image.

Which One Doesn't Belong?
Decimals

Problem #10

A. $2.75 + 0.75$
B. $0.5 + 4$
C. $4 - 0.5$
D. 2.513

Problem #5

A. 2.513
B. 12.51
C. 3.01
D. 2.333

4th - 6th Grade

Problem #2

A. 2.333
B. 5.1
C. 2.42
D. 2.8

12 Challenging Math Problems

Terms of Use



Thank you so much for your purchase. I hope you enjoy it! As a Talented and Gifted teacher it is my goal to create products that engage and challenge your high ability students. If you have any questions or concerns, please feel free to reach me at enhancingenrichment@gmail.com. Please follow <https://www.teacherspayteachers.com/Store/Enhancing-Enrichment> for more products.

By purchasing this resource, you are agreeing that all contents of this resource are the property of Enhancing Enrichment and licensed to you only for classroom or personal use. I retain the copyright and reserve all rights to this product.

You May:

- Use both free and purchased items from **Enhancing Enrichment** with your students in your classroom.
- Use both free and purchased items from **Enhancing Enrichment** for personal use.
- Share this product on social media, at professional development, workshops, blog posts, etc. as long as you give credit to **Enhancing Enrichment**.

You May Not:

- Claim this work as your own or remove copyright or watermarks.
- Offer this resource/file for sale OR for free.
- Distribute this document to multiple users unless multiple licenses were purchased.
- Post parts or all of this resource on the internet without a direct link to **Enhancing Enrichment**.

Let's Stay Connected!

If you like products just like this one, you can find our other products [here](#).



Want a free product? Click on the image to download our free [choice boards](#).



To stay in touch with Enhancing Enrichment, make sure to follow our socials.

