5th Topic 7

Group Expectations

- Only 1 marker & 1 eraser per group
- Write the current problem you are working on at the top
  - ALWAYS estimate your answer FIRST when doing operations
- Try not to erase - reorganize as needed
  - Remember "WRONG" thinking can lead to RIGHT
- You can ONLY write someone else's thinking - NOT your own
  - Make sure everyone has a turn with the marker & turn to think
- EVERYONE must understand so that ANYONE can explain
  - Your goal is NOT to do it the fastest!! Goal is UNDERSTANDING!!
- You may look around the room but you must stay with your group

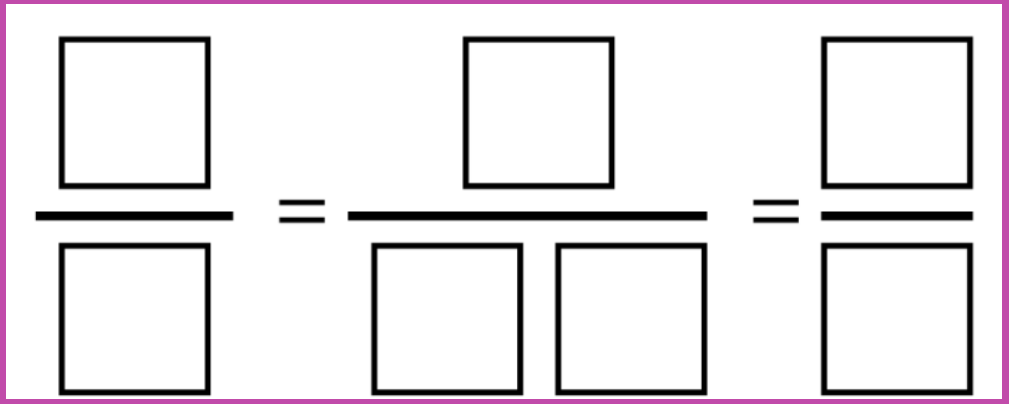
Write 3 equivalent fractions AND model each with your math tools or drawings…

1) 1/2
2) 1/3
3) 1/10
4) 4/5

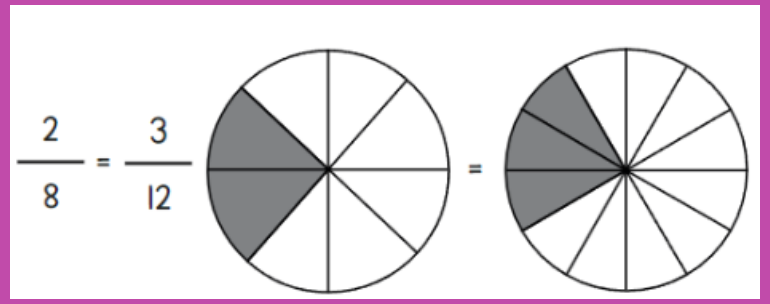
Write 2 equivalent fractions using SMALLER numbers AND model each with your math tools or drawings…

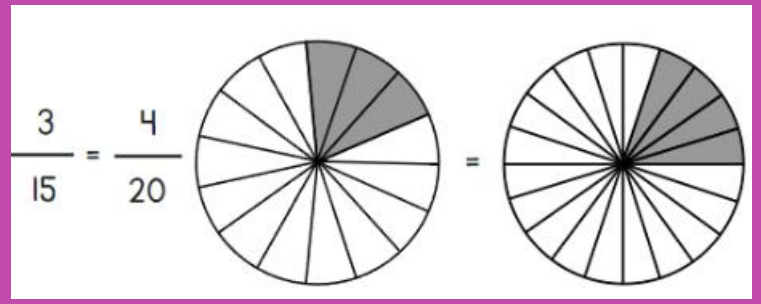
5) 12/24
6) 30/50
7) 36/48
8) 24/36

Using the digits 1-9 at most one time each, fill in the boxes to create 3 equivalent fractions.

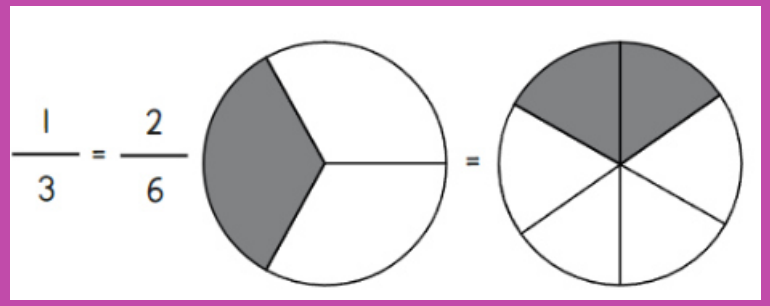


1) These fractions are equivalent. Explain how you know.





2) These fractions are equivalent and one of the them is the "simplest form." Explain how you know they are equivalent and how you know which one is the simplest form.



Write these fractions in simplest form…

3) 6/30
4) 24/30
5) 18/90
6) 99/108
7) 50/80
8) 49/70
8) 11/98
9) 7/27

Equivalent Fractions

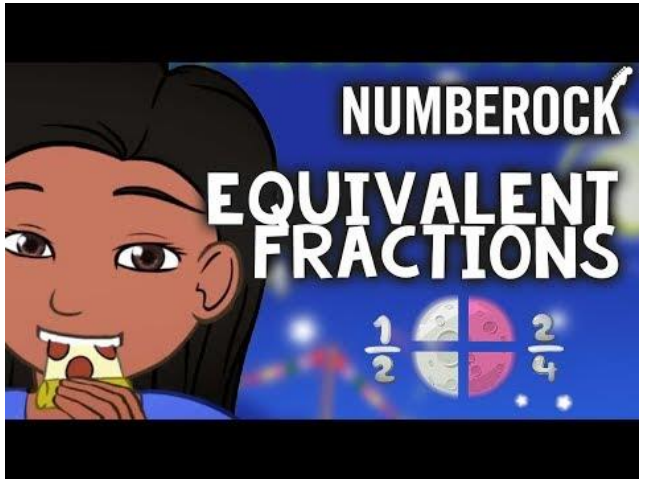
Answer Key

MATH | I can determine equivalent fractions & simplest form.

Check Your Understanding

I'm ½, But Call Me ¾ Worksheet
Fractions Made Simplest Worksheet

Extension: Equivalent Fractions Bingo online game or Triplets online game



https://www.youtube.com/watch?v=vKXqzpz-G0s

Exit Slip

How can you model these fractions?

1) $1\frac{1}{4}$ $2\frac{3}{8}$ 2)

Model these fractions and rewrite them as a mixed number…

3) $\frac{9}{8}$ $\frac{7}{4}$ 6) 4) $\frac{11}{2}$ $\frac{12}{12}$ 5)

Model these fractions and rewrite them as fractions greater than 1…

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

10)

Rewrite these as mixed numbers. What do you notice happens with these?

11) $\frac{21}{3}$ $\frac{45}{9}$ 12)

Rewrite these as improper fractions (fractions greater than 1.)
Write the fraction in SIMPLEST FORM.

13) $\frac{15}{6}$ $\frac{26}{8}$ 14)

Mixed Number & Improper Fractions

Answer Key

MATH | I can rewrite mixed numbers as improper fractions & improper as mixed.

Check Your Understanding

Mix-ups in the Kitchen worksheet

Extension:

Exit Slip

What is a common denominator for these fractions? How can we make equivalent fractions using these common denominator?

1) $\frac{1}{4}$ $\frac{5}{8}$

2) $\frac{4}{3}$ $\frac{1}{6}$

3) $\frac{3}{10}$ $\frac{9}{8}$

4) $\frac{5}{12}$ $\frac{3}{5}$

5) $\frac{3}{8}$ $\frac{9}{20}$

6) Explain what is wrong with this answer: $\frac{2}{3} = \frac{6}{12}$

Lesson 7-2

Answer Key

MATH | I can find common denominators.

Check for Understanding

Page 381 #1- 9

Page 382 #14 & 15

Extension: Clip & Cover 7-2

Exit Slip

1) On a number line from 0-2, place 2 fractions that are closer to 2, 2 fractions that are close to ½, and two fractions that are closer to 1.

Estimate the following sums…

2) $\frac{11}{12} + \frac{1}{6}$

What if it was…

$\frac{9}{10} + \frac{5}{6}$

3) $3\frac{9}{10} + 4\frac{5}{6}$

What if it was…

4) $\frac{1}{16} + \frac{2}{15}$

What if it was…

$\frac{3}{5} + \frac{5}{11}$

5) $6\frac{3}{5} + 2\frac{5}{11}$

What if it was…

Estimate & solve for the following sums. Write your answer in simplest form (remember that is a mixed number, if necessary!) Check with a calculator.

6) $\frac{1}{6} + \frac{3}{6}$

$\frac{7}{10} + \frac{5}{10}$

7) $\frac{2}{6} + \frac{1}{3}$

8) $\frac{1}{2} + \frac{1}{3}$

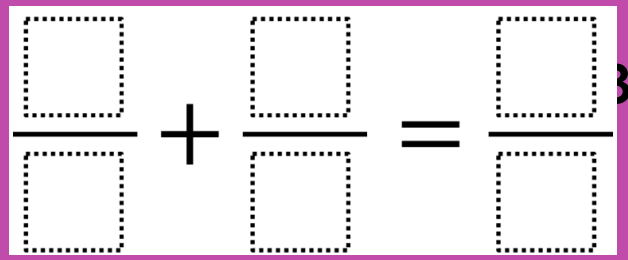
$\frac{2}{5} + \frac{1}{3}$

9) $\frac{5}{6} + \frac{1}{4}$

10) $\frac{1}{2} + \frac{2}{5}$

11) $\frac{4}{9} + \frac{4}{6}$

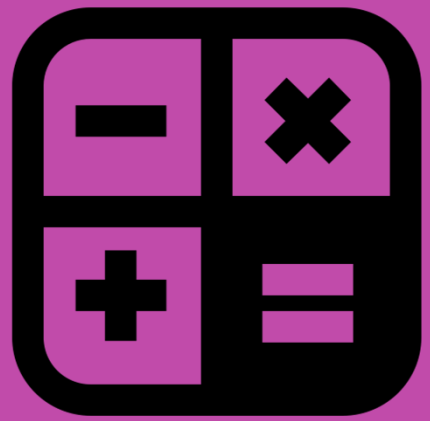
12) Use the digits 1-9, at most one time each, to make a true statement.



13)

Lesson 7-3

Answer Key



MATH | I can estimate & add fractions with unlike denominators.

Check Your Understanding

Lesson 4 Problem Set - Engage NY

Extension: Toss & Talk 7-3

Exit Slip

Estimate & solve for the following sums. Write your answer in simplest form. Check with a calculator.

1) $1\frac{3}{4} + 4\frac{1}{2}$

$1\frac{1}{10} + 2\frac{4}{5}$

2) $1\frac{1}{2} + 2\frac{3}{4}$

$2\frac{2}{5} + 5\frac{5}{6}$

3) $6\frac{5}{12} + 4\frac{5}{8}$

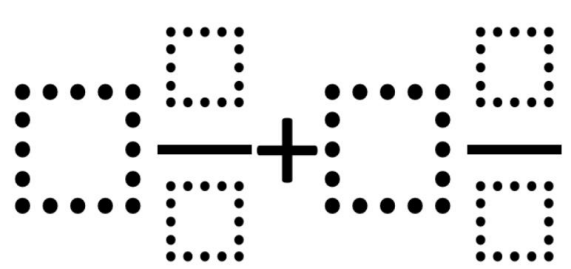
4)

5)

6) Tom has 2 boards. One was 2 4/12 and one was 1 11/12. He wanted to use improper fractions so he changed the mixed numbers to 28/12 and 23/12. Then he added them. Will this method work? How can you prove or disprove this method?

7) Using the digits 1-9, at most one time each, place a digit in each box to make a true equation.

7) Using the digits 1-9, at most one time each, place a digit in each box to make the largest sum.



Lesson 7-7 & 7-8

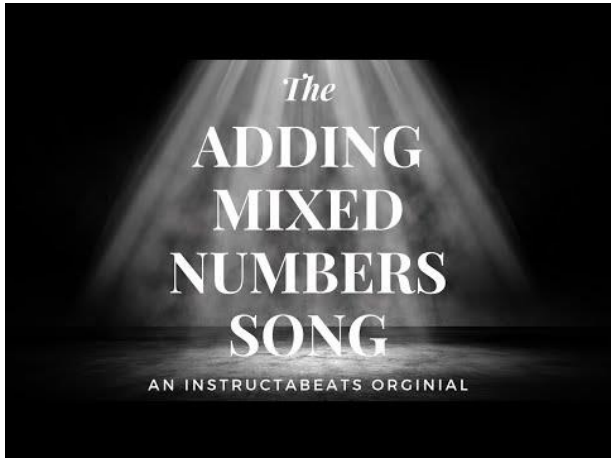
Answer Key

MATH | I can estimate & add mixed numbers.

Check Your Understanding

Lesson 10 Problem Set - Engage NY

Extension: Teamwork 7-7 OR Display the Digits 7-8



Exit Slip

Estimate the following differences…

1) $\frac{14}{16} - \frac{5}{8}$

2) $\frac{11}{18} - \frac{2}{9}$

3) $\frac{24}{25} - \frac{1}{9}$

Estimate & solve for the following differences. Write your answer in simplest form. Check with a calculator.

4) $\frac{5}{8} - \frac{1}{4}$

5) $\frac{4}{6} - \frac{1}{2}$

6) $\frac{2}{3} - \frac{1}{2}$

7) $\frac{4}{5} - \frac{1}{4}$

8) $\frac{11}{12} - \frac{4}{6}$

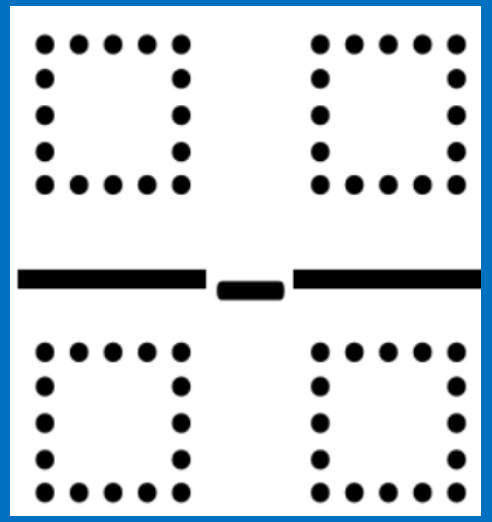
9) $\frac{9}{10} - \frac{3}{4}$

10) Find 2 fractions with a difference of ⅕ but neither of them have a denominator of 5.

11 Find 3 different numbers to make this equation true.

$$\frac{1}{a} - \frac{1}{b} = \frac{1}{c}$$

12) Use the digits 1-9, at most one time each, to make the smallest difference.



13) Now try again but make the largest difference possible.

Lesson 7-4

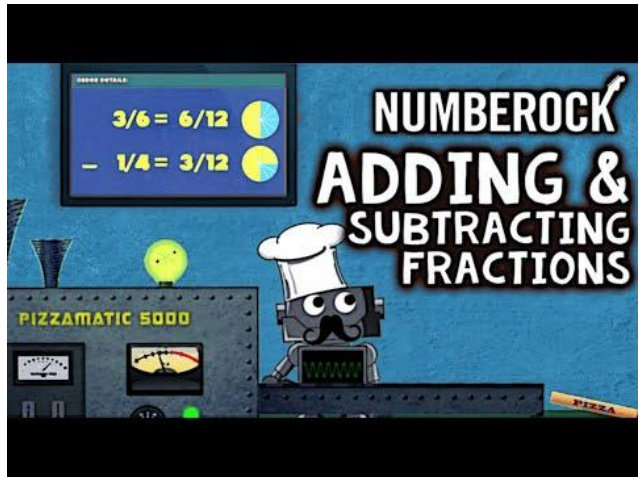
Answer Key

MATH | I can subtract fractions with unlike denominators.

Check Your Understanding

Lesson 5 Problem Set - Engage NY

Extension: Clip & Cover 7-4



https://www.youtube.com/watch?v=LR2S0TOJimc

Exit Slip

Subtract Mixed Numbers Notecatcher

Estimate & solve for the following differences. Write your answer in simplest form. Check with a calculator.

1) $4\frac{5}{6} - 2\frac{1}{3}$

2) $4\frac{1}{8} - 3\frac{3}{4}$

3) $6\frac{1}{2} - 2\frac{5}{6}$

4) $6 - 2\frac{4}{5}$

5) $6\frac{1}{3} - 2\frac{3}{5}$

6) $10\frac{5}{12} - 4\frac{7}{8}$

Create 2 different mixed numbers that will make the equation true by using 1-9, no more than one time each.

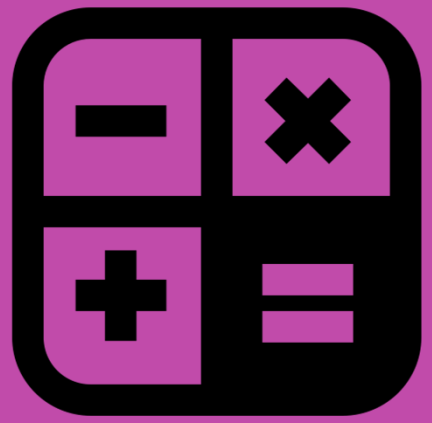
$$5\frac{4}{5} - \square\frac{\square}{\square} = 3\frac{1}{20}$$

Make the smallest difference by filling in all the boxes using 1-9.

$$\square\frac{\square}{\square} - \square\frac{\square}{\square}$$

Lesson 7-9 & 7-10

Answer Key



MATH| I can use models to subtract mixed numbers.

Check Your Understanding

Lesson 12 Problem Set - Engage NY

Extension: Math and Science 7-9

Exit Slip

Numberless Fraction Word Problems

Numberless Word Problems Recording Sheet

Open-Ended Word Problems

1) Jake and Max split $1 between them. They did not split it evenly. What fraction of the dollar could each boy have taken? Write a number sentence to represent how you split it.

1) Jillian drew a line segment 2 ⅞ inches long. She then erased a portion of her line. If Jillian still has a portion of her line left on her paper, show a fraction that represents what she could have erased. Write a number sentence to represent what Jillian did.

1) A pizza was cut into 6 slices. Benjamin and Donna each ate some but one was hungrier than the other. If they did not share the pizza equally, what fraction could represent how much each of them ate? Write a number sentence to represent how much each person ate.

1) Two hexagons together are one whole. Draw them and divide them into trapezoids, rhombuses and/or triangles. Write a number sentence for each way that you could split up this whole.

Lesson 7-12

Answer Key

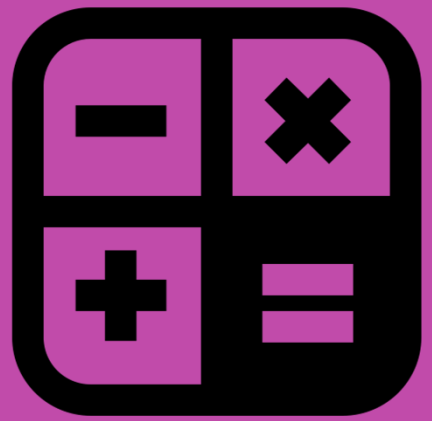
MATH | I can add & subtract fractions in story problems.

Check Your Understanding

Lesson 15 Problem Set - Engage NY

Lesson 7-5 Extra

Answer Key



MATH| I can add & subtract fractions with unlike denominators.

7-5 Add & Subtract Fractions

Page 399 Odd

Page 400 #13,19, 20

OR Solve & Draw Fishing for Fractions

Exit Slip

Lesson 7-7 & 7-8 Extra

Answer Key

Math | I can estimate & add mixed numbers.

Lesson 7-7

Page 411 Odd Problems
Page 412 #13, 14, 20

Lesson 7-8

Page 417 Odd Problems
Page 418 #16, 17, 18, 19

Extension: Teamwork 7-7 OR Display the Digits 7-8

Exit Slip

Lesson 7-9 & 7-10 Extra

Answer Key

MATH | I can subtract mixed numbers.

Lesson 7-9

Page 423 Even Problems
Page 424 #14, 15, 17

Lesson 7-10

Page 429 Odd Problems
Page 430 #10, 12, 13, 14, 15

Extension: Enrichment 7-10

Exit Slip

Lesson 7-11 Extra

Answer Key

MATH | I can add & subtract mixed numbers.

Lesson 7-11

Page 435 Even
Page 436 #10, 12, 14

Extension: Any activity from this topic

Exit Slip

Review

MATH | I can review for our addition & subtraction of fractions test tomorrow.

Review

Reteach pages 445 - 448