

Adding & Subtracting Fractions

September 28/29, 2016

Mr. Collin

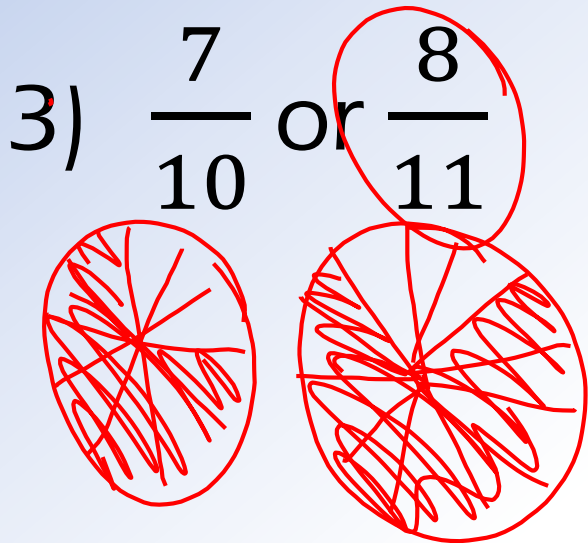


Warmup

Determine which fraction is larger:

1) $\frac{3}{7}$ or $\frac{4}{9}$

2) $\frac{2}{9}$ or $\frac{1}{4}$ $\frac{8}{36}$ $\frac{9}{36}$



4) $\frac{1}{5}$ or $\frac{2}{11}$ $\frac{11}{55}$ $\frac{10}{55}$



Trade and Grade

- If you received a stamp, you will trade your homework with the person sitting next to you (or someone else near you)
- When you get another person's homework, write your name in the "Corrected By" line at the bottom



Trade and Grade

1) $0.\overline{052}$

2) 0.44

3) 15

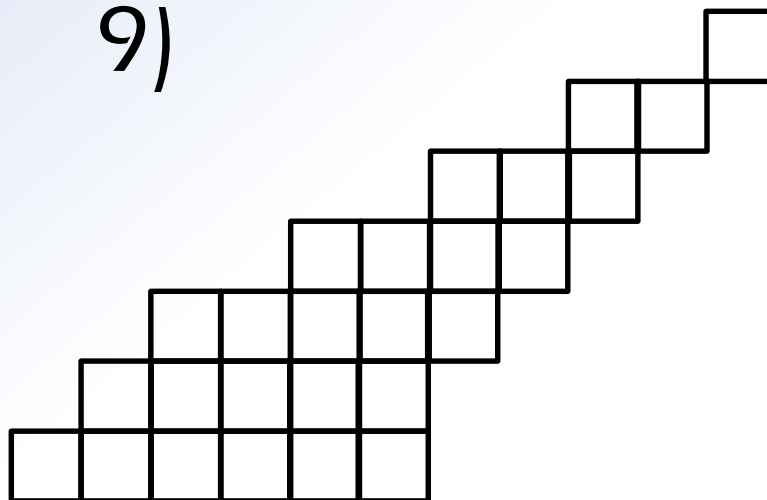
4) 40

5) 48

6) 30

8) (1 graded)

9)





Trade and Grade

- If five or more answers are correct and there is a stamp on the page, write “4” in the score box
- If four or fewer answers are correct, then write “2” in the score box



Tonight's Homework

- Don't forget to fix questions 7 and 8 on tonight's homework:

$$7) \frac{4}{9} + \frac{8}{9}$$

$$8) \frac{11}{16} - \frac{3}{16}$$



Test Review

- If you want to do a retake, you will need to do test corrections with me after school
 - Don't lose your test!
 - Let me know in the next two weeks if you want to do a retake



Adding Fractions

- Let's say you have a quarter

$$\frac{1}{4}$$



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

- What happens if I give you two more quarters?

$$\frac{2}{4}$$



$$\frac{3}{4}$$



Adding Fractions

- So when we add fractions:

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



Adding Fractions

- When we add or subtract fractions, both fractions need to have the same denominator
- Only add or subtract the numerators



Let's Try Some

Add or subtract the following:

$$\frac{1}{8} + \frac{3}{8} = \frac{4}{8} \begin{array}{l} \div 2 \\ \div 2 \end{array} \frac{2}{4} = \frac{1}{2}$$

$$\frac{3}{7} - \frac{5}{7} = -\frac{2}{7}$$



Now You Try

Add or subtract the following:

$$1) \quad \frac{2}{9} + \frac{5}{9} = \frac{7}{9}$$

$$2) \quad \frac{3}{11} - \frac{2}{11} = \frac{1}{11}$$

$$3) \quad \frac{7}{8} - \frac{5}{8} = \frac{1}{4}$$

$$4) \quad \frac{7}{15} + \frac{2}{15} = \frac{9}{15}$$

$$5) \quad \frac{3}{10} + \frac{7}{10} = 1$$

$$6) \quad \frac{4}{13} - \frac{7}{13} = -\frac{3}{13}$$



Now You Try

Add the following:

$$3\frac{3}{4} + 6\frac{3}{4} = 9\frac{6}{4} = 9 + 1\frac{2}{4}$$
$$10\frac{2}{4}$$
$$10\frac{1}{2}$$



With a Partner

- Come up with as many different ways as you can of visually representing how you add or subtract fractions

Adding & Subtracting Fractions

September 30, 2016

Mr. Collin



Warmup

Evaluate and simplify each expression:

$$1) \frac{3}{11} + \frac{8}{11} = \frac{11}{11} = 1$$

$$2) \frac{8}{9} - \frac{2}{9} = \frac{6}{9} = \frac{2}{3}$$

$$3) \frac{7}{10} + \frac{5}{10} = \frac{12}{10} = \frac{6}{5}$$

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

$$= -\frac{1}{2}$$

$$= -\frac{1}{2}$$



Trade and Grade

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Trade and Grade

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

2) 1

3) $\frac{9}{11}$

4) $-\frac{3}{13}$

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

6) $-\frac{1}{8}$

7) $\frac{4}{3}$ or $1\frac{1}{3}$

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

9) (I checked)



Trade and Grade

- If five or more answers are correct and there is a stamp on the page, write “4” in the score box
- If four or fewer answers are correct, then write “2” in the score box



Reminders

- The project is due a week from Monday
 - You may take the textbook home to read ahead
- I will be available after school today and Monday for test corrections



Basketball Review

- I will arrange you into teams
- Each team will get one whiteboard, one marker, and one cloth
- During each round you will solve four problems as a group
- When I call time, you will bring your whiteboard up to the table in the front of the room



Basketball Review

- The more problems you get correct, the closer you get to shoot
- Each team gets to shoot once per round
- Each basket is worth two points
- In case of tie, winner is determined by a shoot-off

Round One

Find the least common denominator of each pair of fractions:

1) $\frac{1}{6}$ and $\frac{5}{9}$

2) $\frac{3}{20}$ and $\frac{7}{12}$

3) $\frac{1}{8}$ and $\frac{3}{14}$

4) $\frac{1}{10}$ and $\frac{3}{6}$

1) 18

2) 60

3) 56

4) 30

Round Two

Evaluate and simplify each expression:

1) $\frac{1}{7} + \frac{4}{7}$

2) $\frac{3}{10} + \frac{9}{10} - \frac{1}{10}$

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

4) $\frac{4}{5} - \frac{9}{5}$

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

2) $\frac{11}{10}$

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

4) -1

Round Three

Convert each decimal into a simplified fraction:

1) 0.76

2) 0.25

3) $0.\overline{54}$

4) $2.\overline{072}$

1) $\frac{19}{25}$

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

3) $\frac{6}{11}$

4) $2\frac{8}{111}$