

10. $\frac{8}{3}$

9. $\frac{10}{17}$

8. $\frac{21}{4}$

7. $\frac{14}{13}$

6. $\frac{40}{39}$

5. $\frac{2}{13}$

4. $\frac{18}{7}$

3. $\frac{24}{13}$

2. $\frac{35}{29}$

1. $\frac{11}{7}$

BASIC MATH

The Complete Course
Lesson Five

Adding Fractions

KA8405

Teaching Guide & Worksheet

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HOW TO USE THE VIDEO AND TEACHING GUIDE

1. The "STOP TO THINK" signal means pause to think.
2. The "STOP TO WORK" signal means work the problem(s).
3. Rewind the tape and watch the lesson again if the concept is not clear.
4. Use "Learning Strategies" section of the Teachers Guide as memory aids and topics for classroom discussion.
5. Students should complete the exercises on the worksheet to confirm their understanding of this lesson.

Instructors may duplicate the worksheets as needed

ADDING

- Adding is counting
 - To add you must have the same place value
 - The denominator is the place value of the fraction which means that to add fractions they must have the same denominator
-

ADDING FRACTIONS WITH LIKE DENOMINATORS

- Add the numerators
 - The denominator of the answer is the same as the denominator of the fractions that are being added
 - $10s + 10s = 10s$
 - $2/9 + 3/9 = 5/9$
 - Reducing answers to lowest terms
 - Divided top and bottom by the same number
 - $5/12 + 1/12 = 6/12$
 - $6/12 = 1/2$
 - Simplifying answers that are improper fractions
 - $7/10 + 5/10 = 12/10$
 - $12/10 = 1 \frac{2}{10}$
 - $1 \frac{2}{10} = 1 \frac{1}{5}$
-

ADDING FRACTIONS WITH UNLIKE DENOMINATORS

- Finding a common denominator
 - $1/3 + 5/12$
 - Common denominator is $3 \times 12 = 36$
 - Using equivalent fractions to add
 - $1/3 = 12/36$
 - $5/12 = 15/36$
 - $12/36 + 15/36 = 27/36$
 - Reducing answers
 - 27 and 36 are divisible by 9
 - $27/36 = 3/4$
 - Using the lowest common denominator to add
 - Lowest common denominator (LCD) for 3 and 12 is 12
 - $1/3 + 5/12 = 4/12 + 5/12$
 - $4/12 + 5/12 = 9/12$
 - $9/12 = 3/4$
 - Simplifying an answer that is an improper fraction
 - What is the largest answer that can be obtained by adding two proper fractions?
 - It is less than two
-

ADDING MIXED NUMBERS

- Align the place values using a common denominator
- Simplify and reduce the sum of mixed numbers

Solve the following.

1. $2\frac{5}{11} + 3\frac{2}{11}$

2. $8\frac{3}{7} + 9\frac{2}{5}$

3. $6\frac{3}{8} + 3\frac{1}{6}$

4. $7\frac{5}{9} + 4\frac{5}{6}$

5. $7\frac{2}{3} + 5\frac{5}{6}$

6. $2\frac{3}{8} + 5\frac{3}{5}$

7. $7\frac{1}{2} + 2\frac{3}{7}$

8. $11\frac{6}{7} + 4\frac{1}{3}$

9. $9\frac{4}{5} + 7\frac{3}{10}$

10. $8\frac{5}{8} + 2\frac{3}{4}$