

**Do Now:**

Write repeating decimal as a fraction

$0.\overline{98}$

$$x = 0.\overline{98}$$

$$100x = 98.\overline{98}$$

$$- 1x = 0.\overline{98}$$


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$$99x = 98$$

$$x = \frac{98}{99}$$

$0.\overline{98} = \frac{98}{99}$

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Handwritten notes showing various fraction conversions and arithmetic problems, including:

- $15 = \frac{15}{1}$
- $5\frac{4}{7} = \frac{39}{7}$
- $9\frac{5}{8} = \frac{77}{8}$
- $2\frac{1}{2} = \frac{5}{2}$
- $0.\overline{6}$  into a fraction =  $\frac{2}{3}$
- $x = 0.\overline{6}$
- $10x = 6.\overline{6}$
- $100x = 66.\overline{6}$
- $10x = 6.\overline{6}$
- $x = 0.\overline{6}$
- $9x = 5.\overline{4}$
- $x = \frac{5}{9}$
- $\frac{9}{20} = 0.450$
- $\frac{10}{24} = \frac{5}{12} = 0.41\overline{6}$

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19  $5.0\overline{7878} = 5.0\overline{78}$

$5.0\overline{78}$  (circled in red)

BAD

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**5.2 Adding and Subtracting Like Fractions**

7.NS.1

Common denominators

- SWBAT add and subtract like fractions.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

Calculators: No

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**Adding and Subtracting Like Fractions**

**Words** To add and subtract fractions with the same denominator, write the sum or difference of the numerators over the denominator

**Numbers**  $4/9 + 1/9 = 5/9$        $9/13 - 2/13 = 7/13$

**Algebra**  $a/c + b/c = (a + b)/c$        $a/c - b/c = (a - b)/c$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

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

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Find the sum or difference.

$$\frac{11}{13} + \frac{8}{13} = \frac{11+8}{13} = \frac{19}{13} = 1\frac{6}{13}$$

$$\frac{21}{24} - \frac{9}{24} = \frac{21-9}{24} = \frac{12}{24} = \frac{1}{2}$$

Simplify.

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$$-5\frac{6}{7} + 3\frac{2}{7} = -2\frac{4}{7}$$

$$-\frac{41}{7} + \frac{23}{7} = \frac{-41+23}{7} = \frac{-18}{7}$$


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

$$\frac{3}{8} - \frac{17}{8} = \frac{3-17}{8} = \frac{-14}{8} = \frac{-7}{4}$$

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$$\frac{1}{12y} + \frac{5}{12y} = \frac{1+5}{12y} = \frac{6}{12y} = \frac{1}{2y}$$

Simplify  $\frac{6}{12} = \frac{1}{2}$

$$\frac{3}{4c} + \frac{7}{4c} + \frac{5}{4c} = \frac{3+7+5}{4c} = \frac{15}{4c}$$

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$$\frac{3x}{4} + \frac{3x}{4} = \frac{3x+3x}{4} = \frac{6x}{4} = \frac{3x}{2}$$

Simplify

$$\frac{-a}{w} + \frac{7a}{w} = \frac{-1a+7a}{w} = \frac{6a}{w}$$

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$$-\frac{t}{3d} - \frac{2t}{3d} = \frac{-t-2t}{3d} = \frac{-3t}{3d} = \frac{-t}{d}$$

Same Signs  
Simplify  $\frac{-3}{3} = -1$

$$27\frac{1}{4} - 14\frac{3}{4}$$

$$\frac{109}{4} - \frac{59}{4} = \frac{50}{4} = \frac{25}{2}$$

$\begin{matrix} 14 & \times 4 & = & 56 \\ 27 & \times 4 & = & 108 \\ \hline & & + & 1 \\ & & \hline & & 109 \end{matrix}$

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**Exit Pass 5.2**

Describe and correct the error in adding  $(-3/7)$  and  $(2/7)$ .

$(-3/7) + (2/7) = (-3+2) / (7+7)$  **BAD**

$= -1 / 14$

$\frac{-3}{7} + \frac{2}{7} = \frac{-3+2}{7} = \frac{-1}{7}$  **Correct!**



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"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook 5.2.

Student  $\longleftrightarrow$  #2-32 Evens Only

#1-33 Odds Only  $\longleftrightarrow$  Teacher

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**Reflection of Today's Lesson**

**5.2 Adding and Subtracting Like Fractions**  
7.NS.1


- SWBAT add and subtract like fractions.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

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**Homework**  
~~pg. 227 #11-43 odds only~~

or *Evens Only*

**Worksheet 5.2**



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