Name: Period:

Int 1 **Notes 2-4** **Unit 2**

Add/Subtract Fractions

Add and Subtraction LIKE Fractions:

Numerator / Denominator

- Like → Have the same Denominator
- Add or Subtract the Numerator
- Keep the Denominator the same.

Ex. 1: $\frac{5}{9}+\frac{2}{9}=\frac{7}{9}$

Ex. 2: $-\frac{3}{5}+\left(-\frac{1}{5}\right)=-\frac{4}{5}$

Ex. 3: $\frac{1}{3}+\frac{2}{3}=\frac{3}{3}=1$

Ex. 4: $-\frac{3}{7}+\frac{1}{7}=\frac{-2}{7}$

Ex. 5: $-\frac{2}{5}+\left(-\frac{2}{5}\right)=\frac{-4}{5}$

Ex. 6: $-\frac{1}{4}+\frac{1}{4}=\frac{0}{4}=0$

Ex. 7: $-\frac{5}{8}+\frac{-3}{8}=\frac{-8}{8}=-1$

Ex. 8: $\frac{5}{8}+\frac{-7}{8}=\frac{-2}{8}\div\frac{2}{2}=\frac{-1}{4}$

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Int 1 **Notes 2-4** **Add/Subtract Fractions** **Unit 2**

Add and Subtraction UNLIKE Fractions:

- UnLike → start with Different Denoms.
- Make them Have the Same Denominator.
  1. Multiply 1 Fraction.
  2. Multiply by Opposite Denominators
  3. $\frac{7\cdot 3}{12\cdot 3}$ $\frac{5\cdot 2}{18\cdot 2}$ → $\frac{21}{36}$ $\frac{10}{36}$

Ex. 9: $\frac{1}{2}+\frac{1}{4}$ ($2\cdot$ $2\cdot$)

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

Ex. 10: $\frac{1}{6}+\frac{2}{3}=\frac{5}{6}$

Ex. 11: $\frac{9}{10}+\left(-\frac{1}{2}\right)=\frac{4}{5}$

Ex. 12: $\frac{1}{4}+\frac{3}{8}=\frac{5}{8}$

Ex. 13: $\frac{1}{4}+\left(-\frac{1}{4}\right)$ ($4\cdot 3$ / $4\cdot 3$)

$-\frac{4}{12}+\left(-\frac{3}{12}\right)=\frac{-7}{12}$

Ex. 14: $-\frac{2}{3}-\frac{1}{2}=\frac{-7}{6}=-1\frac{1}{6}$

Ex. 15: $\frac{5}{8}-\frac{1}{4}=\frac{3}{8}$

Ex. 16: $\frac{3}{4}-\frac{1}{3}$ $\frac{5}{12}$

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Int 1 **Notes 2-4** **Add/Subtract Fractions** **Unit 2**

Ex. 17: $\frac{1}{2} - \left(-\frac{2}{5}\right) = \frac{9}{10}$

Ex. 18: $\left(-\frac{3}{4} + \frac{5}{2}\right) + \frac{7}{3}$

$\left(\frac{-3}{4} + \frac{10}{4}\right)$

$\frac{3 \cdot 7}{3 \cdot 4} + \frac{7 \cdot 4}{3 \cdot 4}$ 4 1/12

$\frac{21}{12} + \frac{28}{12} = \frac{49}{12}$

Ex. 19: Sofia ate $\frac{1}{4}$ of a cheese pizza. Jack ate $\frac{2}{4}$ of a cheese pizza. Spencer ate $\frac{3}{4}$ of a pepperoni pizza. How much pizza did the three friends eat altogether?

1 1/2 pizzas

Ex. 20: Cassie cuts $\frac{5}{16}$ inch off the top of a photo and $\frac{3}{8}$ inch off the bottom. How much shorter is the total height of the photo now?

$\frac{11}{16}$ of an inch