

Outcome 1 - Adding & Subtracting Fractions

Bronze examples...

Examples...

****To add/subtract fractions with the same denominator, just add/subtract the numerators!****

$$\frac{5}{7} + \frac{1}{7} = \frac{6}{7} \quad \frac{2}{9} - \frac{1}{9} = \frac{1}{9}$$

Silver examples

Examples...

1. Multiply denominators!
2. Cross multiply!
3. Add/subtract the numerators!
4. Write as mixed number and simplify! (if required)

$$\frac{3}{4} + \frac{9}{10} = \frac{30}{40} + \frac{36}{40} = \frac{66}{40} = 1\frac{26}{40} = 1\frac{13}{20}$$

$$\frac{9}{10} + \frac{3}{8} = \frac{72}{80} + \frac{30}{80} = \frac{102}{80} = 1\frac{22}{80} = 1\frac{11}{40}$$

Gold example

Examples...

1. Change to "Top Heavy"!
2. Multiply denominators!
3. Cross multiply!
4. Add/subtract the numerators!
5. Write as mixed number and simplify! (if required)

$$4\frac{3}{4} + 1\frac{2}{3} = \frac{19}{4} + \frac{5}{3} = \frac{57}{12} + \frac{20}{12} = \frac{77}{12} = 6\frac{5}{12}$$

Bronze Questions

Add or subtract the following fractions...

 1	$\frac{3}{7} + \frac{2}{7}$	 2	$\frac{3}{5} - \frac{2}{5}$
 3	$\frac{4}{9} + \frac{1}{9}$	 4	$\frac{10}{11} - \frac{2}{11}$
 5	$\frac{8}{13} + \frac{3}{13}$	 6	$\frac{11}{17} - \frac{9}{17}$
 7	$\frac{3}{19} + \frac{7}{19}$	 8	$\frac{18}{23} - \frac{5}{23}$

Silver Questions

Add or subtract the following fractions...

 1	$\frac{1}{2} + \frac{5}{6}$	 2	$\frac{6}{7} - \frac{1}{5}$
 3	$\frac{5}{8} + \frac{1}{3}$	 4	$\frac{7}{12} - \frac{1}{6}$
 5	$\frac{5}{6} + \frac{7}{9}$	 6	$\frac{4}{9} - \frac{2}{5}$
 7	$\frac{3}{10} + \frac{4}{7}$	 8	$\frac{7}{12} - \frac{3}{8}$

Gold Questions

Add or subtract the following fractions...

 1	$1\frac{1}{6} + 2\frac{2}{7}$	 2	$2\frac{3}{7} - 1\frac{1}{3}$
 3	$2\frac{3}{8} + 1\frac{1}{9}$	 4	$1\frac{7}{12} - 1\frac{1}{2}$
 5	$10\frac{3}{4} + 1\frac{4}{5}$	 6	$5\frac{2}{3} - 2\frac{1}{4}$
 7	$1\frac{3}{5} + 5\frac{2}{7}$	 8	$3\frac{5}{12} - 1\frac{1}{7}$

Bronze Answers

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|----|-----------------|----|-----------------|
| 1. | $\frac{6}{7}$ | 2. | $\frac{4}{9}$ |
| 3. | $\frac{8}{15}$ | 4. | $\frac{9}{10}$ |
| 5. | $\frac{24}{49}$ | 6. | $\frac{26}{27}$ |
| 7. | $\frac{28}{45}$ | 8. | $\frac{36}{55}$ |

Silver Answers

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|----|------------------|----|-----------------|
| 1. | $1\frac{1}{3}$ | 2. | $\frac{23}{35}$ |
| 3. | $\frac{23}{24}$ | 4. | $\frac{5}{12}$ |
| 5. | $1\frac{11}{18}$ | 6. | $\frac{2}{45}$ |
| 7. | $\frac{61}{70}$ | 8. | $\frac{5}{24}$ |

Gold Answers

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|----|-------------------|----|------------------|
| 1. | $3\frac{19}{42}$ | 2. | $1\frac{2}{21}$ |
| 3. | $3\frac{35}{72}$ | 4. | $\frac{1}{12}$ |
| 5. | $12\frac{11}{20}$ | 6. | $3\frac{5}{12}$ |
| 7. | $6\frac{31}{35}$ | 8. | $2\frac{23}{84}$ |