

Estimate fraction sums and differences

Independent practice · 8 questions · US Letter

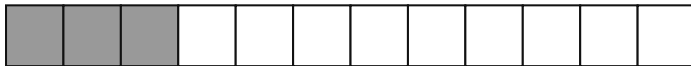
Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Is $3/12 + 1/8$ less than, equal to, or greater than 1?

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$3/12 + 1/8 = 6/24 + 3/24 = 9/24 = 3/8$. This is less than 1.

3/12



1/8



2. Is $3/8 - 2/7$ less than, equal to, or greater than $1/2$?

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$3/8 - 2/7 = 21/56 - 16/56 = 5/56$. This is less than $1/2$.

3/8



2/7



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3. Is $7/9 - 1/2$ less than, equal to, or greater than $1/2$?

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$7/9 - 1/2 = 14/18 - 9/18 = 5/18$. This is less than $1/2$.

4. Is $6/7 + 4/8$ less than, equal to, or greater than 1?

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$6/7 + 4/8 = 48/56 + 28/56 = 76/56 = 19/14 = 1 \frac{5}{14}$. This is greater than 1.

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5. Is $6/7 - 1/2$ less than, equal to, or greater than $1/2$?

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$6/7 - 1/2 = 12/14 - 7/14 = 5/14$. This is less than $1/2$.

6. Is $1/3 + 3/4$ less than, equal to, or greater than 1? Which reason would help you solve this correctly?

Use one half and one whole as benchmarks. If it is close, rename the fractions to check the boundary exactly.

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7. A jug has $\frac{1}{5}$ liters of water. Another $\frac{2}{6}$ liters are poured in. Is the result less than, equal to, or greater than 1 liter?

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$\frac{1}{5} + \frac{2}{6} = \frac{6}{30} + \frac{10}{30} = \frac{8}{15}$. This is less than 1. The answer is in liters.

8. Compare $\frac{5}{5}$ _ $\frac{2}{2}$ of the same-sized whole.

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$\frac{5}{5} = \frac{2}{2}$. Rename both with denominator 10: $\frac{10}{10}$ and $\frac{10}{10}$. Now each piece is the same size, so compare 10 and 10.

$\frac{5}{5}$



$\frac{2}{2}$

