

## Adding, Subtracting, Multiplying, and Dividing Rational Numbers

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In problems 1-2, simplify the fraction

1. $\frac{24}{40}$	2. $\frac{-30}{48}$
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In problems 3-5, multiply the fractions and simplify

3. $\frac{-10}{8} \cdot \frac{20}{25}$	4. $-6 \cdot \frac{-14}{20}$	5. $\frac{12}{30} \cdot \frac{15}{20}$
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In problems 6-7, find the reciprocal of each number

6. $-8$	7. $\frac{5}{3}$
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In problems 8-10, divide the fractions and simplify

8. $\frac{-9}{22} \div \frac{15}{-8}$	9. $12 \div \frac{9}{4}$	10. $\frac{25}{21} \div \frac{35}{49}$
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In problems 11-15, find the sum or difference and simplify

11. $\frac{-8}{10} + \left(-\frac{7}{10}\right)$	12. $\frac{-2}{3} + \left(-\frac{1}{6}\right)$	13. $-\frac{4}{9} + \frac{7}{8}$
14. $\frac{2}{5} - 4$	15. $\frac{8}{15} - \frac{3}{10}$	