

8.3 Properties of Multiplication

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Commutative Property: $a \times b = b \times a$

Associative Property: $(a \times b) \times c = a \times (b \times c)$

Identity Property: $a \times 1 = a$

Zero Property: $a \times 0 = 0$

Distributive Property: $a \times (b + c) = (a \times b) + (a \times c)$

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Reciprocals - two numbers with
product of 1

Fraction

Reciprocal

$$\frac{2}{3} \rightarrow \frac{3}{2}$$

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10

$\frac{2}{3}$

$\frac{9}{11}$

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8.4 Multiply Mixed Numbers

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- Rename the mixed numbers as improper fractions
- simplify or cross cancel
- multiply the numerators and then the denominators
- Rename as a mixed number and simplify

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$$7\frac{2}{3} \times 4\frac{1}{4}$$

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$$9\frac{1}{5} \times 3\frac{7}{12}$$

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