

LESSON 25

# Subtraction From A Whole Number

A fraction can be subtracted from a whole number by borrowing a '1' from the whole number and making an identity fraction.

Example : Subtract  $9 - \frac{3}{5}$

Solution:

$$\begin{array}{r}
 9 \\
 - \frac{3}{5} \\
 \hline
 \end{array}$$

Borrow a '1' from 9 and make  $9 = 8 \frac{5}{5}$

Solution:

$$\begin{array}{r}
 9 \\
 - \frac{3}{5} \\
 \hline
 \end{array}
 =
 \begin{array}{r}
 8 \frac{5}{5} \\
 - \frac{3}{5} \\
 \hline
 8 \frac{2}{5}
 \end{array}$$

# Subtract By Borrowing From The Whole Number

<p>1.</p> $\begin{array}{r} 3 \\ - 1 \\ \hline 2 \end{array} = \begin{array}{r} 2 \frac{4}{4} \\ - 1 \\ \hline 1 \end{array}$ $\begin{array}{r} 3 \\ - 1 \\ \hline 2 \end{array} = \begin{array}{r} 2 \frac{3}{4} \\ - 1 \\ \hline 1 \end{array}$	<p>6.</p> $\begin{array}{r} 1 \\ - 2 \\ \hline 7 \end{array} = \begin{array}{r} 1 \\ - 2 \\ \hline 7 \end{array}$ $\begin{array}{r} 1 \\ - 2 \\ \hline 7 \end{array} = \begin{array}{r} 1 \\ - 2 \\ \hline 7 \end{array}$	<p>11.</p> $\begin{array}{r} 8 \\ - 2 \\ \hline 6 \end{array} = \begin{array}{r} 7 \frac{12}{12} \\ - 2 \frac{7}{12} \\ \hline 5 \frac{5}{12} \end{array}$
<p>2.</p> $\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array} = \begin{array}{r} 4 \frac{10}{10} \\ - 2 \frac{1}{10} \\ \hline 2 \frac{9}{10} \end{array}$	<p>7.</p> $\begin{array}{r} 3 \\ - 2 \\ \hline 1 \end{array} = \begin{array}{r} 2 \frac{5}{5} \\ - 2 \frac{1}{5} \\ \hline 1 \frac{4}{5} \end{array}$	<p>12.</p> $\begin{array}{r} 3 \\ - 2 \\ \hline 1 \end{array} = \begin{array}{r} 2 \frac{16}{16} \\ - 2 \frac{15}{16} \\ \hline 1 \frac{1}{16} \end{array}$
<p>3.</p> $\begin{array}{r} 1 \\ - 3 \\ \hline 2 \end{array} = \begin{array}{r} 1 \\ - 3 \\ \hline 2 \end{array}$ $\begin{array}{r} 1 \\ - 3 \\ \hline 2 \end{array} = \begin{array}{r} 1 \\ - 3 \\ \hline 2 \end{array}$	<p>8.</p> $\begin{array}{r} 3 \\ - 1 \\ \hline 2 \end{array} = \begin{array}{r} 2 \frac{9}{9} \\ - 1 \frac{1}{9} \\ \hline 1 \frac{8}{9} \end{array}$	<p>13.</p> $\begin{array}{r} 8 \\ - 1 \\ \hline 7 \end{array} = \begin{array}{r} 7 \frac{20}{20} \\ - 1 \frac{1}{20} \\ \hline 6 \frac{19}{20} \end{array}$
<p>4.</p> $\begin{array}{r} 7 \\ - 1 \\ \hline 6 \end{array} = \begin{array}{r} 6 \frac{2}{2} \\ - 1 \frac{1}{2} \\ \hline 5 \frac{1}{2} \end{array}$	<p>9.</p> $\begin{array}{r} 12 \\ - 3 \\ \hline 9 \end{array} = \begin{array}{r} 11 \frac{8}{8} \\ - 3 \frac{1}{8} \\ \hline 8 \frac{7}{8} \end{array}$	<p>14.</p> $\begin{array}{r} 9 \\ - 2 \\ \hline 7 \end{array} = \begin{array}{r} 8 \frac{25}{25} \\ - 2 \frac{4}{25} \\ \hline 6 \frac{21}{25} \end{array}$
<p>5.</p> $\begin{array}{r} 1 \\ - 1 \\ \hline 0 \end{array} = \begin{array}{r} 1 \\ - 1 \\ \hline 0 \end{array}$ $\begin{array}{r} 1 \\ - 1 \\ \hline 0 \end{array} = \begin{array}{r} 1 \\ - 1 \\ \hline 0 \end{array}$	<p>10.</p> $\begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array} = \begin{array}{r} 4 \frac{15}{15} \\ - 4 \frac{4}{15} \\ \hline 1 \frac{11}{15} \end{array}$	<p>15.</p> $\begin{array}{r} 1 \\ - 4 \\ \hline 3 \end{array} = \begin{array}{r} 1 \\ - 4 \\ \hline 3 \end{array}$ $\begin{array}{r} 1 \\ - 4 \\ \hline 3 \end{array} = \begin{array}{r} 1 \\ - 4 \\ \hline 3 \end{array}$

# Add Each Pair Of Fractions By Finding Equivalent Fractions

$  \begin{array}{r}  16. \quad 12 \quad = \quad 11 \frac{5}{5} \\  - \quad \frac{3}{5} \quad = \quad \frac{3}{5} \\  \hline  \quad \quad \quad 11 \frac{2}{5}  \end{array}  $	$  \begin{array}{r}  21. \quad 6 \quad = \quad 5 \frac{2}{2} \\  - \quad \frac{1}{2} \quad = \quad \frac{1}{2} \\  \hline  \quad \quad \quad 5 \frac{1}{2}  \end{array}  $	$  \begin{array}{r}  26. \quad 15 \quad = \quad 14 \frac{40}{40} \\  - \quad \frac{3}{40} \quad = \quad \frac{3}{40} \\  \hline  \quad \quad \quad 14 \frac{27}{40}  \end{array}  $
$  \begin{array}{r}  17. \quad 6 \quad = \quad 5 \frac{10}{10} \\  - \quad \frac{9}{10} \quad = \quad \frac{9}{10} \\  \hline  \quad \quad \quad 5 \frac{1}{10}  \end{array}  $	$  \begin{array}{r}  22. \quad 8 \quad = \quad 7 \frac{100}{100} \\  - \quad \frac{3}{100} \quad = \quad \frac{3}{100} \\  \hline  \quad \quad \quad 7 \frac{97}{100}  \end{array}  $	$  \begin{array}{r}  27. \quad 19 \quad = \quad 18 \frac{12}{12} \\  - \quad \frac{11}{12} \quad = \quad \frac{11}{12} \\  \hline  \quad \quad \quad 18 \frac{1}{12}  \end{array}  $
$  \begin{array}{r}  18. \quad 5 \quad = \quad 4 \frac{100}{100} \\  - \quad \frac{7}{100} \quad = \quad \frac{7}{100} \\  \hline  \quad \quad \quad 4 \frac{93}{100}  \end{array}  $	$  \begin{array}{r}  23. \quad 7 \quad = \quad 6 \frac{4}{4} \\  - \quad \frac{3}{4} \quad = \quad \frac{3}{4} \\  \hline  \quad \quad \quad 6 \frac{1}{4}  \end{array}  $	$  \begin{array}{r}  28. \quad 1 \quad = \quad \frac{100}{100} \\  - \quad \frac{99}{100} \quad = \quad \frac{99}{100} \\  \hline  \quad \quad \quad \frac{1}{100}  \end{array}  $
$  \begin{array}{r}  19. \quad 4 \quad = \quad 3 \frac{50}{50} \\  - \quad \frac{7}{50} \quad = \quad \frac{7}{50} \\  \hline  \quad \quad \quad 3 \frac{43}{50}  \end{array}  $	$  \begin{array}{r}  24. \quad 2 \quad = \quad 1 \frac{5}{5} \\  - \quad \frac{4}{5} \quad = \quad \frac{4}{5} \\  \hline  \quad \quad \quad 1 \frac{1}{5}  \end{array}  $	$  \begin{array}{r}  29. \quad 1 \quad = \quad \frac{10}{10} \\  - \quad \frac{9}{10} \quad = \quad \frac{9}{10} \\  \hline  \quad \quad \quad \frac{1}{10}  \end{array}  $
$  \begin{array}{r}  20. \quad 16 \quad = \quad 15 \frac{16}{16} \\  - \quad \frac{1}{16} \quad = \quad \frac{1}{16} \\  \hline  \quad \quad \quad 15 \frac{15}{16}  \end{array}  $	$  \begin{array}{r}  25. \quad 30 \quad = \quad 29 \frac{8}{8} \\  - \quad \frac{7}{8} \quad = \quad \frac{7}{8} \\  \hline  \quad \quad \quad 29 \frac{1}{8}  \end{array}  $	$  \begin{array}{r}  30. \quad 1 \quad = \quad \frac{10}{10} \\  - \quad \frac{1}{10} \quad = \quad \frac{1}{10} \\  \hline  \quad \quad \quad \frac{9}{10}  \end{array}  $

# Add Each Pair Of Unlike Fractions By Making Common Denominators

$\begin{array}{r} 31. \quad 16 \quad = 15 \frac{2}{2} \\ - \quad 10 \frac{1}{2} = 10 \frac{1}{2} \\ \hline \quad \quad \quad 5 \frac{1}{2} \end{array}$	$\begin{array}{r} 36. \quad 12 \quad = 13 \frac{100}{100} \\ - \quad 2 \frac{17}{100} = 2 \frac{17}{100} \\ \hline \quad \quad \quad 11 \frac{83}{100} \end{array}$	$\begin{array}{r} 41. \quad 3 \quad = 2 \frac{19}{19} \\ - \quad 1 \frac{4}{19} = 1 \frac{4}{19} \\ \hline \quad \quad \quad 1 \frac{15}{19} \end{array}$
$\begin{array}{r} 32. \quad 20 \quad = 19 \frac{8}{8} \\ - \quad 5 \frac{3}{8} = 5 \frac{3}{8} \\ \hline \quad \quad \quad 14 \frac{5}{8} \end{array}$	$\begin{array}{r} 37. \quad 17 \quad = 16 \frac{9}{9} \\ - \quad 4 \frac{2}{9} = 4 \frac{2}{9} \\ \hline \quad \quad \quad 14 \frac{7}{9} \end{array}$	$\begin{array}{r} 42. \quad 10 \quad = 9 \frac{10}{10} \\ - \quad 9 \frac{1}{10} = 9 \frac{1}{10} \\ \hline \quad \quad \quad 9 \frac{9}{10} \end{array}$
$\begin{array}{r} 33. \quad 10 \quad = 9 \frac{32}{32} \\ - \quad 7 \frac{21}{32} = 7 \frac{21}{32} \\ \hline \quad \quad \quad 2 \frac{11}{32} \end{array}$	$\begin{array}{r} 38. \quad 12 \quad = 11 \frac{17}{17} \\ - \quad 1 \frac{1}{17} = 1 \frac{1}{17} \\ \hline \quad \quad \quad 10 \frac{16}{17} \end{array}$	$\begin{array}{r} 43. \quad 100 \quad = 99 \frac{100}{100} \\ - \quad 99 \frac{1}{100} = 99 \frac{1}{100} \\ \hline \quad \quad \quad 99 \frac{99}{100} \end{array}$
$\begin{array}{r} 34. \quad 4 \quad = 3 \frac{50}{50} \\ - \quad 1 \frac{3}{50} = 1 \frac{3}{50} \\ \hline \quad \quad \quad 2 \frac{47}{50} \end{array}$	$\begin{array}{r} 39. \quad 2 \quad = 1 \frac{75}{75} \\ - \quad 1 \frac{3}{75} = 1 \frac{3}{75} \\ \hline \quad \quad \quad 1 \frac{72}{75} \end{array}$	$\begin{array}{r} 44. \quad 2 \quad = 1 \frac{1000}{1000} \\ - \quad 1 \frac{1}{1000} = 1 \frac{1}{1000} \\ \hline \quad \quad \quad 999 \frac{999}{1000} \end{array}$
$\begin{array}{r} 35. \quad 9 \quad = 8 \frac{35}{35} \\ - \quad 8 \frac{1}{35} = 8 \frac{1}{35} \\ \hline \quad \quad \quad 8 \frac{34}{35} \end{array}$	$\begin{array}{r} 40. \quad 18 \quad = 17 \frac{100}{100} \\ - \quad 1 \frac{99}{100} = 1 \frac{99}{100} \\ \hline \quad \quad \quad 16 \frac{1}{100} \end{array}$	$\begin{array}{r} 45. \quad 2 \quad = 1 \frac{10,000}{10,000} \\ - \quad 1 \frac{1}{10,000} = 1 \frac{1}{10,000} \\ \hline \quad \quad \quad 9,999 \frac{9,999}{10,000} \end{array}$