

LESSON 22

Subtraction Of Unlike Fractions

The difference of two unlike fractions can be found by making equivalent fractions with a common denominator and then subtracting the numerators.

Example: Subtract $\frac{2}{5} - \frac{1}{7}$

Solution: $\frac{2}{5} - \frac{1}{7}$

$$\frac{14 - 5}{35} = \frac{9}{35}$$

Since: $\frac{(2 \times 7) - (5 \times 1)}{(5 \times 7)} = \frac{14 - 5}{35} = \frac{9}{35}$

Subtract Using The Product Of The Denominators

<p>1.</p> $\frac{8}{9} - \frac{1}{4}$ $\frac{32 - 9}{36} = \frac{23}{36}$	<p>6.</p> $\frac{3}{4} - \frac{1}{5}$ $\frac{15 - 4}{20} = \frac{11}{20}$	<p>11.</p> $\frac{3}{4} - \frac{2}{5}$ $\frac{15 - 8}{20} = \frac{7}{20}$
<p>2.</p> $\frac{5}{6} - \frac{1}{5}$ $\frac{25 - 6}{30} = \frac{19}{30}$	<p>7.</p> $\frac{3}{8} - \frac{1}{5}$ $\frac{15 - 8}{40} = \frac{7}{40}$	<p>12.</p> $\frac{5}{9} - \frac{1}{5}$ $\frac{25 - 9}{45} = \frac{16}{45}$
<p>3.</p> $\frac{1}{5} - \frac{1}{8}$ $\frac{8 - 5}{40} = \frac{3}{40}$	<p>8.</p> $\frac{1}{5} - \frac{1}{7}$ $\frac{7 - 5}{35} = \frac{2}{35}$	<p>13.</p> $\frac{2}{7} - \frac{1}{5}$ $\frac{10 - 7}{35} = \frac{3}{35}$
<p>4.</p> $\frac{4}{9} - \frac{1}{5}$ $\frac{20 - 9}{45} = \frac{11}{45}$	<p>9.</p> $\frac{3}{4} - \frac{4}{7}$ $\frac{21 - 16}{28} = \frac{5}{28}$	<p>14.</p> $\frac{5}{7} - \frac{2}{5}$ $\frac{25 - 14}{35} = \frac{11}{35}$
<p>5.</p> $\frac{4}{5} - \frac{3}{4}$ $\frac{16 - 15}{20} = \frac{1}{20}$	<p>10.</p> $\frac{3}{4} - \frac{1}{7}$ $\frac{21 - 4}{28} = \frac{17}{28}$	<p>15.</p> $\frac{3}{4} - \frac{2}{7}$ $\frac{21 - 8}{28} = \frac{13}{28}$

Subtract Using The Product Of The Denominators

<p>16.</p> $\frac{3}{4} - \frac{3}{5}$ $\frac{15 - 12}{20} = \frac{3}{20}$	<p>21.</p> $\frac{3}{4} - \frac{1}{9}$ $\frac{27 - 4}{36} = \frac{23}{36}$	<p>26.</p> $\frac{3}{4} - \frac{2}{9}$ $\frac{27 - 8}{36} = \frac{19}{36}$
<p>17.</p> $\frac{4}{7} - \frac{2}{5}$ $\frac{20 - 14}{35} = \frac{6}{35}$	<p>22.</p> $\frac{8}{9} - \frac{1}{5}$ $\frac{40 - 9}{45} = \frac{31}{45}$	<p>27.</p> $\frac{3}{7} - \frac{2}{5}$ $\frac{15 - 14}{35} = \frac{1}{35}$
<p>18.</p> $\frac{3}{4} - \frac{5}{7}$ $\frac{21 - 20}{28} = \frac{1}{28}$	<p>23.</p> $\frac{6}{7} - \frac{3}{4}$ $\frac{24 - 21}{28} = \frac{3}{35}$	<p>28.</p> $\frac{2}{5} - \frac{1}{8}$ $\frac{16 - 5}{40} = \frac{11}{40}$
<p>19.</p> $\frac{7}{9} - \frac{1}{5}$ $\frac{35 - 9}{45} = \frac{26}{45}$	<p>24.</p> $\frac{6}{7} - \frac{2}{5}$ $\frac{30 - 14}{35} = \frac{16}{35}$	<p>29.</p> $\frac{7}{9} - \frac{3}{4}$ $\frac{28 - 27}{36} = \frac{1}{36}$
<p>20.</p> $\frac{3}{4} - \frac{3}{7}$ $\frac{21 - 12}{28} = \frac{9}{28}$	<p>25.</p> $\frac{2}{5} - \frac{1}{9}$ $\frac{18 - 5}{45} = \frac{13}{45}$	<p>30.</p> $\frac{2}{5} - \frac{3}{8}$ $\frac{16 - 15}{40} = \frac{1}{40}$

Subtract Using The Product Of The Denominators

<p>31.</p> $\frac{3}{4} - \frac{4}{9}$ $\frac{27 - 16}{36} = \frac{11}{36}$	<p>36.</p> $\frac{3}{4} - \frac{5}{9}$ $\frac{27 - 20}{36} = \frac{7}{36}$	<p>41.</p> $\frac{5}{6} - \frac{2}{5}$ $\frac{25 - 12}{30} = \frac{13}{30}$
<p>32.</p> $\frac{5}{8} - \frac{2}{5}$ $\frac{25 - 16}{40} = \frac{9}{40}$	<p>37.</p> $\frac{3}{7} - \frac{1}{5}$ $\frac{15 - 7}{35} = \frac{8}{35}$	<p>42.</p> $\frac{4}{7} - \frac{1}{5}$ $\frac{20 - 7}{35} = \frac{13}{35}$
<p>33.</p> $\frac{5}{8} - \frac{1}{5}$ $\frac{25 - 8}{40} = \frac{17}{40}$	<p>38.</p> $\frac{7}{8} - \frac{1}{5}$ $\frac{35 - 8}{40} = \frac{27}{40}$	<p>43.</p> $\frac{1}{5} - \frac{1}{9}$ $\frac{9 - 5}{45} = \frac{4}{45}$
<p>34.</p> $\frac{8}{9} - \frac{3}{4}$ $\frac{32 - 27}{36} = \frac{5}{36}$	<p>39.</p> $\frac{2}{5} - \frac{2}{7}$ $\frac{14 - 10}{35} = \frac{4}{35}$	<p>44.</p> $\frac{6}{7} - \frac{1}{5}$ $\frac{30 - 7}{35} = \frac{23}{35}$
<p>35.</p> $\frac{2}{5} - \frac{1}{6}$ $\frac{12 - 5}{30} = \frac{7}{30}$	<p>40.</p> $\frac{1}{5} - \frac{1}{6}$ $\frac{6 - 5}{30} = \frac{1}{30}$	<p>45.</p> $\frac{5}{7} - \frac{1}{5}$ $\frac{25 - 7}{35} = \frac{18}{35}$