

LESSON 21

Addition Of Unlike Fractions

(Fractions With A Lowest Common Denominator)

The sum of two or more fractions having a lowest common denominator lower than the product of the denominators can be found by making equivalent fractions and adding the numerators.

Example : Add

$$\frac{5}{12} + \frac{2}{9}$$

Solution:

$$\frac{5}{12} \times \frac{3}{3} = \frac{15}{36}$$

$$\frac{2}{9} \times \frac{4}{4} = \frac{8}{36}$$

$$\frac{23}{36}$$

Add Each Pair Of Fractions By Finding Equivalent Fractions

<p>1. $\frac{1}{6} = \frac{4}{24}$ $+\frac{3}{8} = \frac{9}{24}$ <hr style="width: 100%;"/> $\frac{13}{24}$</p>	<p>6. $\frac{13}{14} = \underline{\hspace{2cm}}$ $+\frac{4}{21} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>11. $\frac{2}{9} = \underline{\hspace{2cm}}$ $+\frac{4}{15} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>
<p>2. $\frac{1}{9} = \underline{\hspace{2cm}}$ $+\frac{1}{6} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>7. $\frac{5}{24} = \underline{\hspace{2cm}}$ $+\frac{7}{32} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>12. $\frac{1}{12} = \underline{\hspace{2cm}}$ $+\frac{5}{9} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>
<p>3. $\frac{3}{10} = \underline{\hspace{2cm}}$ $+\frac{4}{15} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>8. $\frac{2}{15} = \underline{\hspace{2cm}}$ $+\frac{3}{20} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>13. $\frac{5}{8} = \underline{\hspace{2cm}}$ $+\frac{3}{10} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>
<p>4. $\frac{1}{4} = \underline{\hspace{2cm}}$ $+\frac{1}{6} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>9. $\frac{1}{6} = \underline{\hspace{2cm}}$ $+\frac{3}{10} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>14. $\frac{1}{20} = \underline{\hspace{2cm}}$ $+\frac{4}{25} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>
<p>5. $\frac{7}{20} = \underline{\hspace{2cm}}$ $+\frac{1}{15} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>10. $\frac{5}{12} = \underline{\hspace{2cm}}$ $+\frac{1}{20} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>	<p>15. $\frac{3}{8} = \underline{\hspace{2cm}}$ $+\frac{1}{12} = \underline{\hspace{2cm}}$ <hr style="width: 100%;"/> $\underline{\hspace{2cm}}$</p>

Add Each Pair Of Fractions By Finding Equivalent Fractions

<p>16. $\frac{5}{14} + \frac{2}{21}$</p> <p>$\frac{15}{42} + \frac{4}{42} = \frac{19}{42}$</p>	<p>21. $\frac{1}{8} + \frac{3}{10}$</p> <p>_____ + _____ = _____</p>	<p>26. $\frac{2}{15} + \frac{1}{18}$</p> <p>_____ + _____ = _____</p>
<p>17. $\frac{1}{10} + \frac{5}{12}$</p> <p>_____ + _____ = _____</p>	<p>22. $\frac{2}{9} + \frac{1}{6}$</p> <p>_____ + _____ = _____</p>	<p>27. $\frac{3}{16} + \frac{3}{20}$</p> <p>_____ + _____ = _____</p>
<p>18. $\frac{3}{20} + \frac{2}{15}$</p> <p>_____ + _____ = _____</p>	<p>23. $\frac{3}{16} + \frac{1}{24}$</p> <p>_____ + _____ = _____</p>	<p>28. $\frac{2}{15} + \frac{5}{12}$</p> <p>_____ + _____ = _____</p>
<p>19. $\frac{1}{10} + \frac{1}{6}$</p> <p>_____ + _____ = _____</p>	<p>24. $\frac{1}{8} + \frac{1}{6}$</p> <p>_____ + _____ = _____</p>	<p>29. $\frac{5}{24} + \frac{1}{18}$</p> <p>_____ + _____ = _____</p>
<p>20. $\frac{2}{9} + \frac{1}{12}$</p> <p>_____ + _____ = _____</p>	<p>25. $\frac{7}{30} + \frac{1}{18}$</p> <p>_____ + _____ = _____</p>	<p>30. $\frac{1}{12} + \frac{3}{16}$</p> <p>_____ + _____ = _____</p>

Add Each Pair Of Unlike Fractions By Making Common Denominators

<p>31.</p> $\frac{1}{8} + \frac{5}{6}$ $\frac{3 + 20}{24} = \frac{23}{24}$	<p>36.</p> $\frac{5}{12} + \frac{1}{18}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>41.</p> $\frac{1}{12} + \frac{1}{20}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
<p>32.</p> $\frac{1}{12} + \frac{3}{10}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>37.</p> $\frac{1}{9} + \frac{5}{6}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>42.</p> $\frac{1}{9} + \frac{1}{12}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
<p>33.</p> $\frac{3}{8} + \frac{1}{6}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>38.</p> $\frac{2}{21} + \frac{1}{14}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>43.</p> $\frac{2}{15} + \frac{1}{12}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
<p>34.</p> $\frac{2}{9} + \frac{1}{15}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>39.</p> $\frac{3}{10} + \frac{1}{15}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>44.</p> $\frac{7}{24} + \frac{1}{32}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
<p>35.</p> $\frac{1}{20} + \frac{4}{15}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>40.</p> $\frac{3}{10} + \frac{2}{15}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<p>45.</p> $\frac{5}{18} + \frac{1}{30}$ $\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$