



## Grade 8 - Mathematics

### Focus on Fractions 1

#### Memo



Complete the following calculations

$\begin{aligned} 1. \quad & \frac{3}{4} + \frac{3}{5} \\ & = \frac{15}{20} + \frac{12}{20} \\ & = \frac{27}{20} \\ & = 1 \frac{7}{20} \end{aligned}$	$\begin{aligned} 2. \quad & \frac{7}{10} + \frac{3}{4} \\ & = \frac{28}{40} + \frac{30}{40} \\ & = \frac{58}{40} \\ & = 1 \frac{18}{40} \\ & = 1 \frac{9}{20} \end{aligned}$
$\begin{aligned} 3. \quad & \frac{9}{12} - \frac{4}{7} \\ & = \frac{63}{84} - \frac{48}{84} \\ & = \frac{15}{84} \\ & = \frac{5}{28} \end{aligned}$	$\begin{aligned} 4. \quad & \frac{3}{4} - \frac{2}{5} \\ & = \frac{15}{20} - \frac{8}{20} \\ & = \frac{7}{20} \end{aligned}$
$\begin{aligned} 5. \quad & 7\frac{3}{12} - 5\frac{5}{7} \\ & = \frac{8^{21}}{84} - \frac{7^{60}}{84} \\ & = \frac{1^{21}}{84} - \frac{60}{84} \\ & = \frac{21+84}{84} - \frac{60}{84} \\ & = \frac{105}{84} - \frac{60}{84} \\ & = \frac{45}{84} \\ & = \frac{15}{28} \end{aligned}$	$\begin{aligned} 6. \quad & 6\frac{1}{4} + 4\frac{1}{2} \\ & = 10\frac{1}{4} + \frac{2}{4} \\ & = 10\frac{3}{4} \end{aligned}$



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$\begin{aligned} 7. & \quad 9/16 + 3/4 \\ & = 9/16 + 12/16 \\ & = 21/16 \\ & = 1 \frac{5}{16} \end{aligned}$	$\begin{aligned} 8. & \quad 1^2/9 + 1^4/5 \\ & = 2^{10}/45 + 36/45 \\ & = 2^{46}/45 \\ & = 3^1/45 \end{aligned}$
$\begin{aligned} 9. & \quad 5^1/6 - 2^2/8 \\ & = 3^8/48 - 12/48 \\ & = 2^{8+48}/48 - 12/48 \\ & = 2^{56}/48 - 12/48 \\ & = 2^{44}/48 \\ & = 2^{11}/12 \end{aligned}$	$\begin{aligned} 10. & \quad 11^2/5 - 4^4/7 \\ & = 7^{14}/35 - 20/35 \\ & = 6^{14+35}/35 - 20/35 \\ & = 6^{49}/35 - 20/35 \\ & = 6^{29}/35 \end{aligned}$



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