

Astrid

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$$f) \frac{6}{12} + \left(\frac{4}{9}\right) \left(\frac{9}{6}\right) \cdot \frac{4}{3} - \frac{7}{6} + 9$$

$$\frac{6}{12} + \frac{36}{54} \cdot \frac{4}{3} - \frac{7}{6} + \frac{9}{1}$$

$$\frac{6}{12} + \frac{144}{162} - \frac{7}{6} + \frac{9}{1} = \frac{162 + 288 - 378 + 2916}{324} =$$

$$\frac{2988}{324} = \frac{1494}{162} = \frac{747}{81} = \frac{249}{27} =$$

$$\frac{83}{9} = 9 \frac{2}{2}$$

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$$d) \frac{3}{12} \left(\frac{4}{9} \right) \left(\frac{9}{6} \right) + \frac{4}{12} =$$

$$\frac{3}{12} \cdot \frac{4}{9} \cdot \frac{9}{6} + \frac{4}{12}$$

$$\frac{12}{108} \cdot \frac{9}{6} + \frac{4}{12}$$

$$\frac{108}{648} + \frac{4}{12} = \frac{108 + 216}{648} = \frac{324}{648} = \frac{162}{324} =$$

$$\frac{81}{162} = \frac{27}{54} = \frac{9}{18} = \frac{3}{6} = \frac{1}{2}$$

$$e) 6 \frac{8}{5} + \left(7 \frac{4}{9} \right) 3 \left(2 \frac{9}{6} \right) \cdot 4 =$$

$$6 \frac{8}{5} + \frac{67}{9} \cdot \frac{3}{1} \cdot \frac{27}{6} \cdot \frac{4}{1}$$

$$6 \frac{8}{5} + \frac{16884}{54}$$

$$\frac{38}{5} + \frac{16884}{54} = \frac{2052}{270} + 84,420 = 86,472 =$$

$$\frac{43,230}{135} = \frac{14,472}{45} = \frac{4,804}{15}$$

$$\frac{320}{3} \frac{3}{6}$$

$$b) \frac{6}{12} + \left(\frac{4}{9}\right) \left(\frac{9}{6}\right) =$$

$$\frac{6 + 36}{12 \cdot 54} = \frac{54 + 72}{108} = \frac{126}{108} = \frac{63}{54} = \frac{21}{18} = \frac{7}{6} = 1\frac{1}{6}$$

$$c) \frac{6}{10} - \left(\frac{7}{9}\right) \div \left(\frac{-10}{6}\right) =$$

$$\frac{6}{10} - \frac{7}{9} \div \frac{10}{6}$$

$$\frac{6}{10} - \frac{42}{90} = \frac{54 - 42}{90} = \frac{12}{90} = \frac{6}{45} =$$

$$\frac{2}{15}$$