

Yr. 1.

N1

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

N2

$$\frac{3}{2} + \frac{1}{2} = \frac{4}{2} = 2$$

N5

$$\frac{3}{8} - \frac{1}{4} = \frac{3}{8} - \frac{2}{8} = \frac{1}{8}$$

N12

$$\frac{5}{3} - \frac{15}{10} = \frac{5 \cdot 5 \cdot 3}{3 \cdot 5 \cdot 2} = \frac{5}{2}$$

N15

$$\frac{1}{2} : \frac{1}{2} = 1$$

Yr 2

N4

$$\frac{5^2 - 1}{18} \cdot \frac{10}{4} = \frac{25 - 1}{18} \cdot \frac{10}{4} = \frac{24}{18} \cdot \frac{10}{4} =$$

$$\frac{6 \cdot 5}{9} = \frac{3 \cdot 2 \cdot 5}{3 \cdot 3} = \frac{10}{3}$$

$$N/9$$

$$\frac{\cancel{3}}{8} \cdot \frac{24}{5} \cdot \frac{10}{\cancel{27}^9} = \frac{\cancel{3} \cdot \cancel{24}^6 \cdot \cancel{10}^2}{\cancel{8}^4 \cdot 5 \cdot 9} = \frac{\cancel{6} \cdot 2}{2 \cdot \cancel{3} \cdot 9} = \frac{6}{9} = \frac{2}{3}$$

N/10

$$\frac{\cancel{3}}{5} \cdot \frac{\cancel{5}}{\cancel{8}} \cdot \frac{\cancel{7}}{\cancel{9}^3} = \frac{\cancel{2}}{4} \cdot \frac{4}{8} \cdot \frac{\cancel{6}}{\cancel{8}^4} =$$

$$= \frac{1}{3} - \frac{1}{4} = \frac{4}{12} - \frac{3}{12} = \frac{1}{12}$$

Yup 3

$$1. \quad \frac{\cancel{1}}{\cancel{2}} \cdot \frac{\cancel{2}}{\cancel{3}} \cdot \frac{\cancel{3}}{\cancel{4}} \cdot \frac{\cancel{4}}{\cancel{5}} \cdot \frac{\cancel{5}}{\cancel{6}} \cdot \frac{2011}{\cancel{2012}}$$

$$\frac{1}{2012}$$