

Division:

$$\frac{12}{13} : \frac{14}{15} = \frac{12}{13} * \frac{15}{14} = \frac{6}{13} * \frac{15}{7} = \frac{90}{91}$$

$$\frac{11}{25} : \frac{32}{46} = \frac{11}{25} * \frac{46}{32} = \frac{11}{25} * \frac{23}{16} = \frac{253}{400}$$

$$\frac{30}{40} : \frac{10}{50} = \frac{30}{40} * \frac{50}{10} = \frac{3}{4} * \frac{50}{10} = \frac{3}{4} * \frac{5}{1} = \frac{15}{4} = 3\frac{3}{4}$$

$$\frac{2}{6} : \frac{23}{49} = \frac{2}{6} * \frac{49}{23} = \frac{1}{3} * \frac{49}{23} = \frac{49}{69}$$

$$\frac{13}{23} : \frac{2}{3} = \frac{13}{23} * \frac{3}{2} = \frac{39}{46}$$

$$\frac{1}{7} : \frac{23}{35} = \frac{1}{7} * \frac{35}{23} = \frac{1}{1} * \frac{5}{23} = \frac{5}{23}$$

$$\frac{6}{37} : \frac{33}{74} = \frac{6}{37} * \frac{74}{33} = \frac{2}{1} * \frac{2}{11} = \frac{4}{11}$$

$$\frac{4}{3} : \frac{15}{6} = \frac{4}{3} * \frac{6}{15} = \frac{4}{1} * \frac{2}{15} = \frac{8}{15}$$

$$\frac{27}{40} : \frac{72}{50} = \frac{27}{40} * \frac{50}{72} = \frac{27}{4} * \frac{5}{72} = \frac{3}{4} * \frac{5}{8} = \frac{15}{32}$$

$$\frac{22}{13} : \frac{11}{52} = \frac{22}{13} * \frac{52}{11} = \frac{2}{13} * \frac{52}{1} = \frac{2}{1} * \frac{4}{1} = \frac{8}{1} = 8$$

$$\frac{11}{13} : \frac{17}{19} = \frac{11}{13} * \frac{19}{17} = \frac{209}{221}$$

$$\frac{31}{21} : \frac{155}{84} = \frac{31}{21} * \frac{84}{155} = \frac{1}{21} * \frac{84}{5} = \frac{1}{1} * \frac{4}{5} = \frac{4}{5}$$