

Egyptian Division

$$\frac{31}{13} = \frac{26+5}{13} = 2 + \frac{5}{13}$$

$$= 2 + \frac{4+1}{13}$$

$$= 2 + \frac{4}{13} + \frac{1}{13}$$

$$= 2 + 2\left(\frac{2}{13}\right) + \frac{1}{13}$$

$$= 2 + 2\left(\frac{1}{8} + \frac{1}{52} + \frac{1}{104}\right) + \frac{1}{13}$$

$$= 2 + \frac{1}{4} + \frac{1}{26} + \frac{1}{52} + \frac{1}{13}$$

$$\frac{31}{13} = 2 + \frac{1}{4} + \frac{1}{13} + \frac{1}{24} + \frac{1}{52}$$