

NO CALCULATOR MAY BE USED IN THIS EXERCISE!

- (1) Arrange the numbers in ascending order:
- $1,7$
- ;
- $1\frac{4}{5}$
- and
- $1\frac{3}{4}$

$$\begin{array}{lll}
 1,7 & 1\frac{4}{5} \times \frac{4}{4} & 1\frac{3}{4} \times \frac{5}{5} \\
 = 1\frac{7}{10} \times \frac{2}{2} & = 1\frac{16}{20} \text{ (3)} & = 1\frac{15}{20} \text{ (2)} \\
 = 1\frac{14}{20} \text{ (1)} & &
 \end{array}$$

$$\therefore 1,7 < 1\frac{3}{4} < 1\frac{4}{5}$$

- (2) Simplify:
- Orde van bewerkingen!*

(a) $\frac{5}{6} + \frac{3}{4} + 1$

$$= \frac{5}{6} \times \frac{2}{2} + \frac{3}{4} \times \frac{3}{3} + \frac{1}{1} \times \frac{12}{12}$$

$$= \frac{10}{12} + \frac{9}{12} + \frac{12}{12}$$

$$= \frac{10 + 9 + 12}{12}$$

$$= \frac{31}{12}$$

$$= 2\frac{7}{12}$$

(b) $\frac{3}{4}$ of 116

$$= \frac{3}{4} \times \frac{116}{1}^{29}$$

$$= 3 \times 29$$

$$= 87$$

(c) $-\frac{84}{25} \div \frac{12}{20}$

$$= -\frac{84}{25} \times \frac{20}{12}$$

$$= -\frac{7 \times 4}{5}$$

$$= -\frac{28}{5}$$

$$= -5\frac{3}{5}$$

(d) $1\frac{3}{4} \times \frac{10}{21} \times 3\frac{3}{5}$

$$= \frac{7}{4} \times \frac{10}{21} \times \frac{18}{5}$$

$$= \frac{1 \times 2 \times 18}{4 \times 3}$$

$$= \frac{6}{2}$$

$$= 3$$

$$(e) 2 - 4\frac{1}{5}$$

$$= \frac{2}{1} - \frac{21}{5}$$

$$= \frac{2}{1} \times \frac{5}{5} - \frac{21}{5}$$

$$= \frac{10}{5} - \frac{21}{5}$$

$$= -\frac{11}{5}$$

$$= -2\frac{1}{5}$$

$$(f) 8\frac{5}{6} - \left(-3\frac{3}{4}\right)$$

$$= \frac{53}{6} + \frac{15}{4}$$

$$= \frac{53}{6} \times \frac{2}{2} + \frac{15}{4} \times \frac{3}{3}$$

$$= \frac{106}{12} + \frac{45}{12}$$

$$= \frac{151}{12}$$

$$= 12\frac{7}{12}$$

(3) Write $\frac{1}{4}$ and $\frac{1}{5}$ as decimals and place three rational numbers in-between.

$$\frac{1}{4} \times \frac{25}{25} = \frac{25}{100}$$

$$= 0,25$$

$$\frac{1}{5} \times \frac{20}{20} = \frac{20}{100}$$

$$= 0,20$$

$$\therefore \frac{1}{4} = 0,25 > 0,24 > 0,23 > 0,22 > 0,21 > 0,20 = \frac{1}{5}$$

(4) Write four equivalent fractions for: -0,5

$$-0,5 = -\frac{5}{10} = -\frac{1}{2} = -\frac{2}{4} = -\frac{3}{6} \dots\dots$$