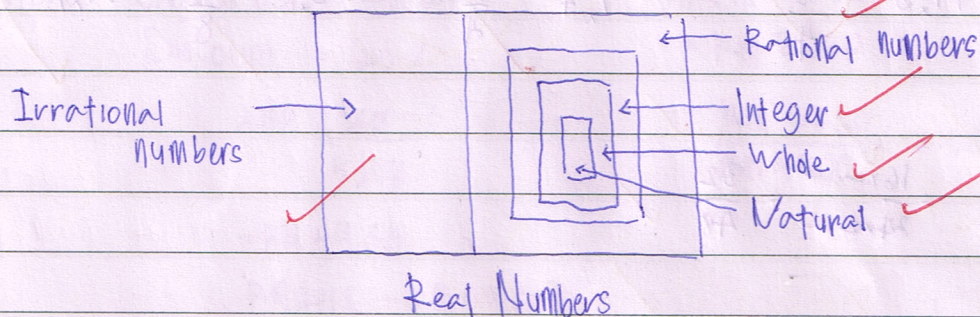


Self Exercise 1



2. a) Natural Numbers = 23 ✓

b) Whole Numbers = 0, 23 ✓

c) Integers = -8, 0, 23 ✓

d) Rational Numbers = $\frac{7}{8}$, $25\frac{1}{8}$ ✓

e) Irrational Numbers = $\sqrt{17}$ ✓

3. a) $\frac{40}{9} = 4\frac{4}{9}$ ✓

$$\begin{array}{r} 4 \\ 9 \overline{) 40} \\ \underline{-36} \\ 4 \end{array}$$

d) $\frac{45}{11} = 4\frac{1}{11}$ ✓

$$\begin{array}{r} 4 \\ 11 \overline{) 45} \\ \underline{-44} \\ 1 \end{array}$$

b) $\frac{23}{7} = 3\frac{2}{7}$ ✓

$$\begin{array}{r} 3 \\ 7 \overline{) 23} \\ \underline{-21} \\ 2 \end{array}$$

e) $\frac{40}{3} = 13\frac{1}{3}$ ✓

$$\begin{array}{r} 13 \\ 3 \overline{) 40} \\ \underline{-39} \\ 10 \\ \underline{-9} \\ 1 \end{array}$$

c) $\frac{82}{5} = 16\frac{2}{5}$ ✓

$$\begin{array}{r} 16 \\ 5 \overline{) 82} \\ \underline{-50} \\ 32 \\ \underline{-30} \\ 2 \end{array}$$

~~$\frac{112}{5}$~~

Many careless!

15/12/17

$$4. a) 9 \times \frac{2}{3} = \frac{27}{3}$$

$$b) 17 \times \frac{1}{3} = \frac{53}{4}$$

$$c) 7 \times \frac{2}{4} = \frac{21}{4}$$

$$d) 3 \times \frac{3}{8} = \frac{27}{8}$$

$$e) 1 \times \frac{6}{7} = \frac{13}{7}$$

$$5. a) \frac{2 \times 2}{3 \times 2} = \frac{4 \times 2}{6 \times 2} = \frac{8 \times 2}{12 \times 2} = \frac{16 \times 2}{24 \times 2} = \frac{32}{48}$$

$$b) \frac{3 \times 2}{5 \times 2} = \frac{6 \times 2}{10 \times 2} = \frac{12 \times 2}{20 \times 2} = \frac{24 \times 2}{40 \times 2} = \frac{48}{80}$$

$$c) \frac{4 \times 2}{6 \times 2} = \frac{8 \times 2}{12 \times 2} = \frac{16 \times 2}{24 \times 2} = \frac{32 \times 2}{48 \times 2} = \frac{64}{96}$$

$$6. a) \frac{2}{3} \text{ and } \frac{8}{12} = \frac{2 \times 3}{3 \times 3} = \frac{6}{9} \quad \frac{8}{12} = \text{not equivalent}$$

Equivalent

$$\frac{8}{12} = \frac{2 \times 4}{2 \times 6}$$

$$b) \frac{5}{9} \text{ and } \frac{27}{15} = \frac{5 \times 9}{9 \times 9} = \frac{45}{81} = \text{not equivalent}$$

$$c) \frac{4}{5} \text{ and } \frac{5}{4} = \frac{4 \times 5}{5 \times 5} = \frac{20}{25} = \text{not equivalent}$$

$$7. a) 3 \times 10^4 = 30000$$

$$b) 3.27 \times 10^3 = 3270$$

$$c) 3 \div 10^2 = 0.03$$

$$d) 4.32 \div 10^4 = 0.000432$$

$$\frac{4.32}{10000} = 0.000432$$

$$8. a) 5720 = 5.72 \times 10^3$$

$$b) 443000 = 4.43 \times 10^5$$

$$c) 0.99 = 9 \times 10^{-2}$$

$$d) 7.4 = 7.4 \times 10^0 = 7.4$$

$$e) 6000000 = 6 \times 10^6$$

~~RM 500~~

9. a) Sales price - Original price = RM 248

Discount = 20%

$$248 \times \frac{120}{100}$$

= RM 49.60

RM 248 - RM 49.60

= RM 198.40

c) RM 51360 - RM 48000

= RM 3360

$$\frac{\text{RM } 3360}{\text{RM } 48000} \times 100\% = 7\%$$

b) Original $\frac{15}{560}$

- 476

RM 84 discount

$$\frac{84}{560} \times 100\% = 15\%$$

9) $6200 \times \frac{8}{100}$

= 496 people

= 6200 - 496

= 5704

$\frac{5704}{5704}$

- 496

5704