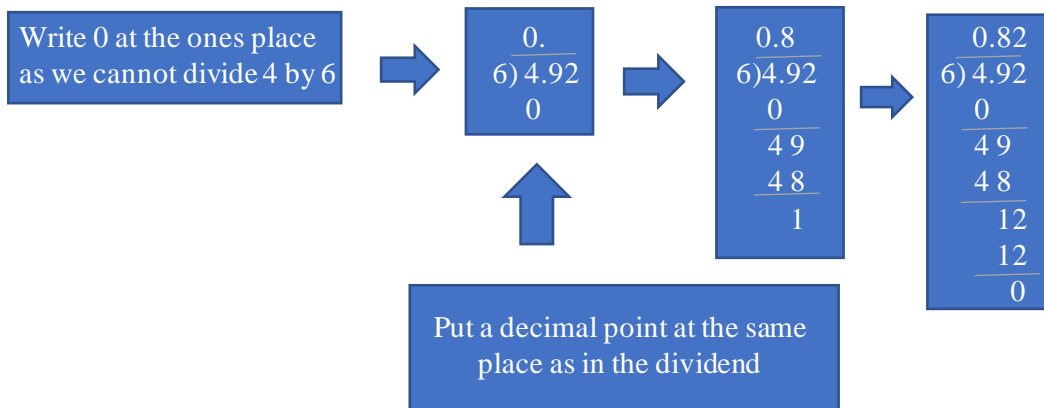
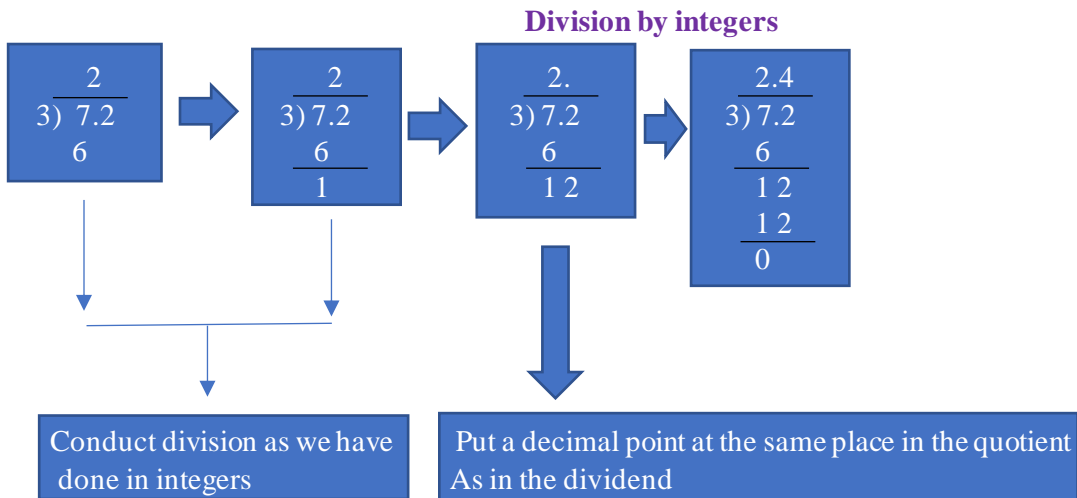


***Decimal Fractions***

**Lecture sheet – 3**



**Divide:**

1)  $0.8 \div 4$

2)  $1.8 \div 3$

**Solution:**

$$\begin{array}{r} 1) \quad \underline{0.2} \\ 4 \overline{) 0.8} \\ \underline{8} \phantom{0} \\ 8 \phantom{0} \\ \underline{8} \\ 0 \end{array}$$

$$\begin{array}{r} 2) \quad \underline{0.5} \\ 3 \overline{) 1.5} \\ \underline{0} \phantom{0} \\ 15 \phantom{0} \\ \underline{15} \\ 0 \end{array}$$

1.Exercise (Do yourself):

Divide: 1)  $0.9 \div 3$     2)  $1.6 \div 8$     3)  $4.2 \div 7$     4)  $7.2 \div 9$

Divide:

1)  $0.16 \div 2$     2)  $0.36 \div 6$     3)  $0.28 \div 7$     4)  $0.35 \div 5$

Solution:

|   |   |   |   |
|---|---|---|---|
| 1) $\begin{array}{r} 0.08 \\ 2 \overline{)0.16} \\ \underline{0} \phantom{00} \\ 1 \phantom{00} \\ \underline{0} \phantom{00} \\ 16 \\ \underline{16} \\ 0 \end{array}$ | 2) $\begin{array}{r} 0.06 \\ 6 \overline{)0.36} \\ \underline{0} \phantom{00} \\ 3 \phantom{00} \\ \underline{0} \phantom{00} \\ 36 \\ \underline{36} \\ 0 \end{array}$ | 3) $\begin{array}{r} 0.04 \\ 7 \overline{)0.28} \\ \underline{0} \phantom{00} \\ 2 \phantom{00} \\ \underline{0} \phantom{00} \\ 28 \\ \underline{28} \\ 0 \end{array}$ | 4) $\begin{array}{r} 0.07 \\ 5 \overline{)0.35} \\ \underline{0} \phantom{00} \\ 3 \phantom{00} \\ \underline{0} \phantom{00} \\ 35 \\ \underline{35} \\ 0 \end{array}$ |
|---|---|---|---|

2.Exercise (Do yourself):

Divide:

1)  $0.09 \div 3$     2)  $0.12 \div 4$     3)  $0.24 \div 8$     4)  $0.18 \div 2$     5)  $0.32 \div 4$     6)  $0.42 \div 6$

Divide:

1)  $0.009 \div 3$     2)  $0.035 \div 7$     3)  $0.025 \div 5$     4)  $0.048 \div 8$

Solution:

|  |  |  |  |
|--|--|--|--|
| 1) $\begin{array}{r} 0.003 \\ 3 \overline{)0.009} \\ \underline{0} \phantom{000} \\ 0 \phantom{000} \\ \underline{0} \phantom{000} \\ 0 \\ \underline{0} \\ 9 \\ \underline{9} \\ 0 \end{array}$ | 2) $\begin{array}{r} 0.005 \\ 7 \overline{)0.035} \\ \underline{0} \phantom{000} \\ 0 \phantom{000} \\ \underline{0} \phantom{000} \\ 3 \\ \underline{0} \\ 35 \\ \underline{35} \\ 0 \end{array}$ | 3) $\begin{array}{r} 0.005 \\ 5 \overline{)0.025} \\ \underline{0} \phantom{000} \\ 0 \phantom{000} \\ \underline{0} \phantom{000} \\ 2 \\ \underline{0} \\ 25 \\ \underline{25} \\ 0 \end{array}$ | 4) $\begin{array}{r} 0.006 \\ 8 \overline{)0.048} \\ \underline{0} \phantom{000} \\ 0 \phantom{000} \\ \underline{0} \phantom{000} \\ 4 \\ \underline{0} \\ 48 \\ \underline{48} \\ 0 \end{array}$ |
|--|--|--|--|

3.Exercise (Do yourself):

Divide:

1)  $0.008 \div 2$     2)  $0.016 \div 4$     3)  $0.028 \div 7$     4)  $0.042 \div 6$     5)  $0.021 \div 3$     6)  $0.018 \div 9$

Divide:

1)  $0.2 \div 5$       2)  $0.04 \div 8$       3)  $2 \div 4$       4)  $3 \div 5$       5)  $0.02 \div 4$

Solution:

$$\begin{array}{r} 1) \quad \frac{0.04}{5) \overline{0.2}} \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} 2) \quad \frac{0.005}{8) \overline{0.04}} \\ \underline{0} \\ 0 \\ \underline{0} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

$$\begin{array}{r} 3) \quad \frac{0.5}{4) \overline{2}} \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} 4) \quad \frac{0.6}{5) \overline{3}} \\ \underline{0} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$\begin{array}{r} 5) \quad \frac{0.005}{4) \overline{0.02}} \\ \underline{0} \\ 0 \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

4.Exercise (Do yourself):

Divide:

1)  $0.3 \div 5$       2)  $0.4 \div 8$       3)  $0.1 \div 2$       4)  $0.03 \div 6$       5)  $0.04 \div 5$

Divide vertically:

1.  $\overline{3)7.2}$       2.  $\overline{6)39.6}$       3.  $\overline{6)30.6}$

Solution:

$$\begin{array}{r} 1) \quad \frac{2.4}{3) \overline{7.2}} \\ \underline{6} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

$$\begin{array}{r} 2) \quad \frac{6.6}{6) \overline{39.6}} \\ \underline{36} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

$$\begin{array}{r} 3) \quad \frac{10.2}{3) \overline{30.6}} \\ \underline{3} \\ 0 \\ \underline{0} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

5.Exercise (Do yourself):

Divide vertically:

1.  $\overline{2)4.2}$       2.  $\overline{3)8.1}$       3.  $\overline{6)8.4}$       4.  $\overline{5)37.5}$

Divide vertically:

1.  $6 \overline{)4.92}$     2.  $7 \overline{)0.329}$     3.  $8 \overline{)5}$     4.  $4 \overline{)1}$     5.  $8 \overline{)3}$   
6.  $6 \overline{)60.03}$     7.  $4 \overline{)10.812}$

Solution:

1. 
$$\begin{array}{r} 0.82 \\ 6 \overline{)4.92} \\ \underline{0} \\ 49 \\ \underline{48} \\ 12 \\ \underline{12} \\ 0 \end{array}$$
2. 
$$\begin{array}{r} 0.047 \\ 7 \overline{)0.329} \\ \underline{0} \\ 3 \\ \underline{0} \\ 32 \\ \underline{28} \\ 49 \\ \underline{49} \\ 0 \end{array}$$
3. 
$$\begin{array}{r} 0.625 \\ 8 \overline{)5} \\ \underline{0} \\ 50 \\ \underline{48} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$
4. 
$$\begin{array}{r} 0.25 \\ 4 \overline{)1} \\ \underline{0} \\ 10 \\ \underline{8} \\ 20 \\ \underline{20} \\ 0 \end{array}$$
5. 
$$\begin{array}{r} 0.375 \\ 8 \overline{)3} \\ \underline{0} \\ 30 \\ \underline{24} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$
6. 
$$\begin{array}{r} 0.005 \\ 6 \overline{)60.03} \\ \underline{6} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 30 \\ \underline{30} \\ 0 \end{array}$$
7. 
$$\begin{array}{r} 2.703 \\ 4 \overline{)10.812} \\ \underline{8} \\ 28 \\ \underline{28} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

6.Exercise (Do yourself):

Divide vertically:

1.  $7 \overline{)2.24}$     2.  $8 \overline{)6.72}$     3.  $5 \overline{)0.75}$     4.  $3 \overline{)9.18}$     5.  $6 \overline{)24.3}$   
6.  $3 \overline{)0.642}$     7.  $7 \overline{)0.742}$     8.  $5 \overline{)0.405}$

## Solution

**1.**

1) 0.3 , 2) 0.2 , 3) 0.6 , 4) 0.8

**2.**

1) 0.03 , 2) 0.03 , 3) 0.03 , 4) 0.09 , 5) 0.08 , 6) 0.07

**3.**

1) 0.004 , 2) 0.004 , 3) 0.004 , 4) 0.007 , 5) 0.007 , 6) 0.002

**4.**

1) 0.06 , 2) 0.05 , 3) 0.05 , 4) 0.005 , 5) 0.008

**5.**

1) 2.1 , 2) 2.7 , 3) 1.4 , 4) 7.5

**6.**

1) 0.32 , 2) 0.84 , 3) 0.15 , 4) 3.06 , 5) 4.05 , 6) 0.214 , 7) 0.106 , 8) 0.081