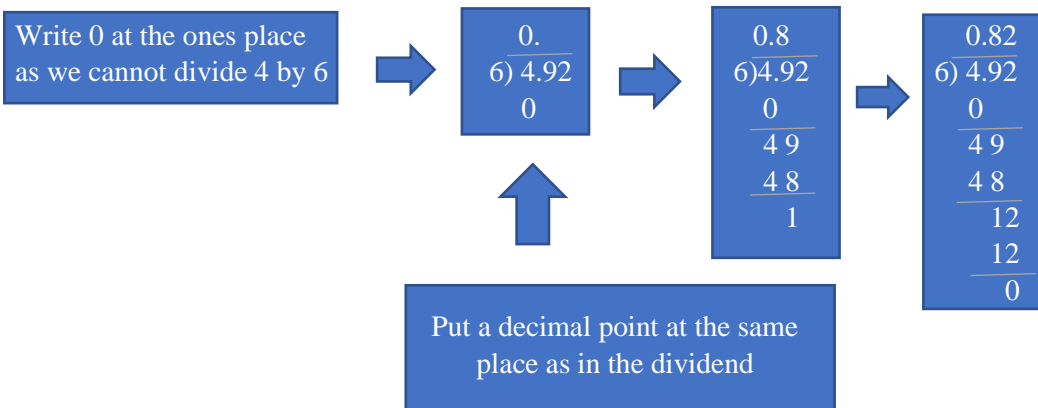
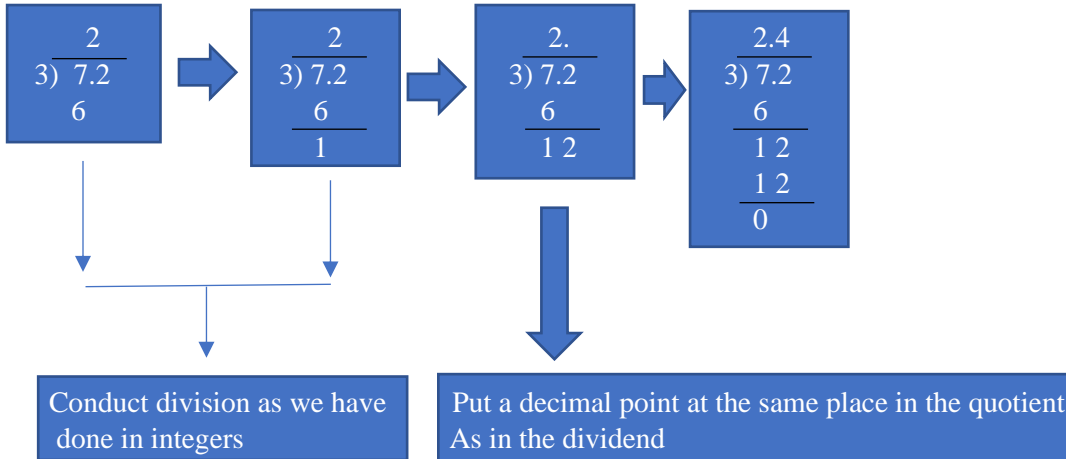


Decimal Fractions

Lecture sheet – 3

Division by integers



Divide:

1) $0.8 \div 4$

2) $1.8 \div 3$

Solution:

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

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

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) $\begin{array}{r} 0.08 \\ 2 \overline{)0.16} \\ \underline{0} \\ 1 \\ \underline{0} \\ 16 \\ \underline{16} \\ 0 \end{array}$	2) $\begin{array}{r} 0.06 \\ 6 \overline{)0.36} \\ \underline{0} \\ 3 \\ \underline{0} \\ 36 \\ \underline{36} \\ 0 \end{array}$	3) $\begin{array}{r} 0.04 \\ 7 \overline{)0.28} \\ \underline{0} \\ 2 \\ \underline{0} \\ 28 \\ \underline{28} \\ 0 \end{array}$	4) $\begin{array}{r} 0.07 \\ 5 \overline{)0.35} \\ \underline{0} \\ 3 \\ \underline{0} \\ 35 \\ \underline{35} \\ 0 \end{array}$
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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) $\begin{array}{r} 0.003 \\ 3 \overline{)0.009} \\ \underline{0} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 9 \\ \underline{9} \\ 0 \end{array}$	2) $\begin{array}{r} 0.005 \\ 7 \overline{)0.035} \\ \underline{0} \\ 0 \\ \underline{0} \\ 3 \\ \underline{0} \\ 35 \\ \underline{35} \\ 0 \end{array}$	3) $\begin{array}{r} 0.005 \\ 5 \overline{)0.025} \\ \underline{0} \\ 0 \\ \underline{0} \\ 2 \\ \underline{0} \\ 25 \\ \underline{25} \\ 0 \end{array}$	4) $\begin{array}{r} 0.006 \\ 8 \overline{)0.048} \\ \underline{0} \\ 0 \\ \underline{0} \\ 4 \\ \underline{0} \\ 48 \\ \underline{48} \\ 0 \end{array}$
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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:

1)	$\begin{array}{r} 0.04 \\ 5 \overline{) 0.2} \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$	2)	$\begin{array}{r} 0.005 \\ 8 \overline{) 0.04} \\ \underline{0} \\ 0 \\ \underline{0} \\ 40 \\ \underline{40} \\ 0 \end{array}$	3)	$\begin{array}{r} 0.5 \\ 4 \overline{) 2} \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$	4)	$\begin{array}{r} 0.6 \\ 5 \overline{) 3} \\ \underline{0} \\ 30 \\ \underline{30} \\ 0 \end{array}$	5)	$\begin{array}{r} 0.005 \\ 4 \overline{) 0.02} \\ \underline{0} \\ 0 \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$
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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:

1)	$\begin{array}{r} 2.4 \\ 3 \overline{) 7.2} \\ \underline{6} \\ 12 \\ \underline{12} \\ 0 \end{array}$	2)	$\begin{array}{r} 6.6 \\ 6 \overline{) 39.6} \\ \underline{36} \\ 36 \\ \underline{36} \\ 0 \end{array}$	3)	$\begin{array}{r} 10.2 \\ 3 \overline{) 30.6} \\ \underline{3} \\ 0 \\ \underline{0} \\ 6 \\ \underline{6} \\ 0 \end{array}$
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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.
$$\begin{array}{r} 10.005 \\ 6 \overline{) 60.03} \\ \underline{6} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 30 \\ \underline{30} \\ 0 \end{array}$$
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