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## 3. Decimal

## Exercise 3 A

1. Convert each of the following into a fraction in its simplest

i)  $.8$

$$= .8 = \frac{8}{10} = \frac{4}{5}$$

ii)  $.75$

$$= .75 = \frac{75}{100} = \frac{3}{4}$$

iii)  $.06$

$$= .06 = \frac{6}{100} = \frac{3}{50}$$

iv)  $.285$

$$= .285 = \frac{285}{1000} = \frac{57}{200}$$



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2. Convert into mixed fraction.

$$i) 5.6 = 5 \frac{6}{10}$$

$$ii) 12.25 = 12 \frac{25}{100}$$

$$iii) 6.004 = 6 \frac{4}{1000}$$

$$iv) 4.625 = 4 \frac{625}{1000}$$

3. Convert the following into a decimal.

$$i) \frac{47}{10} = 4.7$$

$$ii) \frac{156}{100} = 1.56$$

$$iii) \frac{2516}{100} = 25.16$$

$$iv) \frac{3524}{1000} = 3.524$$

$$v) \frac{25}{8} = \frac{25}{8}$$

$$= 8 \overline{) 25} \begin{array}{r} 3 \cdot 125 \\ - 24 \\ \hline 010 \end{array}$$

$$\begin{array}{r} - \quad 8 \\ \hline 20 \\ - 16 \\ \hline 40 \\ - 40 \\ \hline 00 \end{array}$$

$$= 3.125$$



$$\text{vi)} \quad 3\frac{2}{5} = \frac{5 \times 3 + 2}{5} = \frac{17}{5} = 3.4$$

$$\begin{array}{r} 3.4 \\ 5 \overline{) 17} \\ \underline{- 15} \\ 20 \\ \underline{- 20} \\ 00 \end{array}$$

$$\text{vii)} \quad 2\frac{2}{25} = \frac{25 \times 2 + 2}{25} = \frac{52}{25} = 2.07$$

$$\begin{array}{r} 2.07 \\ 25 \overline{) 52} \\ \underline{- 50} \\ 20 \\ \underline{- 20} \\ 00 \end{array}$$

$$\text{viii)} \quad \frac{17}{20} = 0.85$$

$$\begin{array}{r} 0.85 \\ 20 \overline{) 17} \\ \underline{- 00} \\ 170 \\ \underline{- 160} \\ 0100 \\ \underline{- 100} \\ 000 \end{array}$$

4. Convert each into like decimals.

i.  $6.5, 16.03, 0.274, 119.4$

$$= \frac{6500}{1000}, \frac{16030}{1000}, \frac{0274}{1000}, \frac{119400}{1000}$$

ii) 3.5, 0.67, 15.6, 4

$$= \left[ \frac{3}{10}, \frac{0}{100}, \frac{15}{10}, \right]$$

$$= \left[ \frac{30}{100}, \frac{000}{100}, \frac{150}{100}, \right]$$

$$\frac{35}{10}, \frac{67}{100}, \frac{156}{10} = \frac{4}{1}$$

$$= \frac{350}{100}, \frac{67}{100}, \frac{1560}{100} = \frac{400}{100}$$

6. Arrange into ascending order.

i) 4.6, 7.4, 4.58, 7.32, 4.06

$$= 4.06, 4.58, 4.6, 7.32, 7.4$$

ii) 0.5, 5.5, 5.05, 0.05, 5.55

$$= 0.05, 0.5, 5.05, 5.5, 5.55$$

iii) 6.84, 6.48, 6.8, 6.4, 6.08

$$= 6.08, 6.4, 6.48, 6.8, 6.84$$



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iv)  $2.2, 2.202, 2.02, \cancel{2.02}, 22.2, 2.002$

=  $2.002, 2.02, 2.2\cancel{02}, 2.202, 22.2$

7. Arrange into descending order.

i)  $7.4, 8.34, 74.4, 7.44, 0.74$

=  $\cancel{8.34}, 74.4, 8.34, 7.44, 7.4, 0.74$

ii)  $2.6, 2.26, 2.06, 2.007, 2.3$

=  $2.26, 2.6, 2.3, 2.06, 2.007$

0.04

4.5 mm

$$\frac{4.5 \text{ mm}}{100} = 0.45 \text{ cm.}$$

$$\frac{0.45 \text{ cm}}{100} = 0.0045 \text{ m}$$

0.0045 m

$$\frac{0.0045 \text{ m}}{1000}$$

0.000045