

Ch-10 - DECIMAL FRACTIONS



Ex-10 (A)

1) Write the decimal fractions in words.

a) $0.9 =$ Zero point nine

b) $0.07 =$ Zero point zero seven

c) $0.083 =$ Zero point zero eight three

d) $0.014 =$ Point zero one four

e) $0.005 =$ Point zero zero five

2) Write the following (a) in fraction form and (b) in the decimal form.

a) Two tenth = $\frac{2}{10}$ 0.2

b) Four and five tenth = $4\frac{5}{10}$ 4.5

c) Five - hundredth = $\frac{5}{100}$ 0.05

d) Eleven and three hundredth = $11\frac{3}{100}$ 11.03

e) Seventy two hundredth = $\frac{72}{100}$ 0.72

f) Sixteen and twenty seven hundredth = $16 \frac{27}{100}$ 16.27

3) Express the following in decimal fractions

a) $\frac{12}{100} = 0.12$

b) $\frac{37}{100} = 0.37$

c) $\frac{1}{1000} = 0.001$

d) $\frac{35}{1000} = 0.035$

4) Write the following in fractions or in mixed numbers.

a) $0.45 = \frac{45}{100} = \frac{9}{20}$

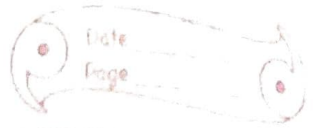
$$b) 0.124 = \frac{124}{1000} = \frac{31}{250}$$

$$c) 0.049 = \frac{49}{1000} = \frac{49}{1000}$$

$$d) 0.055 = \frac{55}{1000} = \frac{11}{200}$$

$$e) 9.05 = \frac{95}{100} = 9\frac{1}{20}$$

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1) Write the following decimal fraction in words.

f) $0.038 =$ Point zero three eight

g) $0.0036 =$ Point zero zero three six

b) $27.075 =$ twenty seven point zero seven five

2) Write the following (a) in fraction form and (b) in decimal form.

g) Five thousandths $= \frac{5}{1000} = 0.005$

h) Twenty-eight thousandths $= \frac{28}{1000} = 0.028$

3) Express the following fractions as decimal fractions.

e) $\frac{112}{1000} = 0.112$

f) $21 \frac{76}{100} = 21.76$

g) $112 \frac{9}{10} = 112.9$

4) Write the following as a fraction or mixed number. Given the answer in simplified form.

$$f) \text{ ~~15~~ } 30.09 = 30 \frac{9}{100} \bullet$$

$$g) 100.225 = 100 \frac{225}{1000} = 100 \frac{9}{40}$$

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6) Write each decimal in the expanded form:

a) $0.48 = 0 + .4 + .08$

b) $0.714 = 0 + .7 + 0.1 + .004$

c) $1.75 = 1 + .7 + .05$

d) $23.345 = 20 + 3 + .3$

e) $9.062 = 9 + .06 + .002$

f) $52.005 = 50 + 2 + .005$

g) $5.015 = 5 + .01 + .005$

h) $815.426 = 800 + 10 + 5 + 0.4 + 0.02 + 0.006$

7) Write $>$ or $<$

a) $0.46 < 0.5$

b) $0.008 < 0.1$

c) $0.76 < 0.09$

d) $0.48 < 0.7$

e) $0.125 < 0.307$

f) $0.009 < 0.04$

g) Arrange the following in a ascending order using the sign ' $<$ '.

a) $0.6, 0.43, 0.7$

Ans- $0.43 < 0.6 < 0.7$

b) $0.014, 0.8, 0.006$

Ans- $0.006 < 0.014 < 0.8$

c) $0.123, 0.321, 0.103$

Ans- $0.103 < 0.123 < 0.321$

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5) Give the place value of the underlined digit:

a) $0.\underline{6}7 = \text{Six} \cdot \text{hundredths}$ tenths

b) $0.\underline{1}63 = \text{Ten one} \cdot \text{tenth}$

c) $0.2\underline{7}9 = \text{Seven} \cdot \text{hundredths}$

d) $4.\underline{1}6 = \text{Six hundredths}$

e) $3.\underline{7}84 = \text{Seven tenths}$

f) $15.\underline{7}5 = \text{Five hundredths}$

g) $\underline{1}6.12 = 1 \text{ ten}$

8) Arrange the following in ascending order using the sign '<'.

d) $0.9, 0.83, 0.8$

Ans $0.8 < 0.83 < 0.9$

e) 3.46, 1.95, 1.99

Ans- $1.95 < 1.99 < 3.46$

f) 11.21, 11.211, 11.112

Ans- $11.112 < 11.21 < 11.211$

g) Arrange the following in descending order using the sign '>'.

a) 0.76, 0.62, 0.67

Ans- $0.76 > 0.67 > 0.62$

b) 0.25, 0.56, 0.53

Ans $0.56 > 0.53 > 0.25$

c) 3.41, 6.83, 1.94

Ans- $6.83 > 3.41 > 1.94$

d) 0.81, 0.77, 1.05

Ans- $1.05 > 0.81 > 0.77$

e) 1.16, 6.11, 1.61

Ans - $6.11 > 1.61 > 1.16$

f) 0.246, 0.426, 0.024

Ans - $0.426 > 0.246 > 0.024$