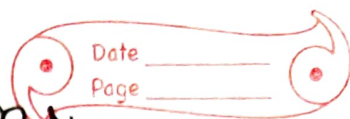


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Chapter - 10

Decimal Fractions



Exercise - 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 in Fraction and 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 hundredths = $11\frac{3}{100} = 11.03$

e. Seventy two hundredths = $\frac{72}{100} = 0.72$

f. Sixteen and twenty seven hundredths = $16\frac{27}{100} = 16.27$

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.

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

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

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

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

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. Give the answer in simplified form.

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

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

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

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

$$(e) \quad 9.05 = 9 \frac{5}{100} = 9 \frac{1}{20}$$

$$(f) \quad 30.09 = 30 \frac{9}{100} = 30 \frac{9}{100}$$

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

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5. Give the place value of the underlined digit.

(a) $0.\underline{6}7 = 6 \text{ tenths}$

(b) $0.\underline{1}63 = 1 \text{ tenth}$

(c) $0.\underline{2}79 = 2 \text{ hundredths}$

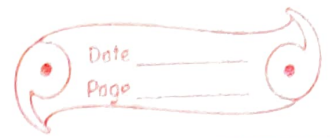
(d) $4.\underline{1}6 = 1 \text{ tenth}$

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

(f) $15.\underline{7}5 = 7 \text{ tenths}$

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

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Exercise 10(A)

6. Write each decimal in the expanded form:

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

b) $0.714 = 0 + .7 + .01 + .004$

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

d) $23.345 = 20 + 3 + .3 + .04 + .005$

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

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

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

h) $815.426 = 800 + 10 + 5 + .4 + .02 + .006$

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. $0.009 < 0.04$

8. Arrange the following in ascending order using > or <.

(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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Exercise 10 (A)

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- $11.112 < 11.21 < 11.211$

9. Arrange the following in descending order using the sign '>'.

1. 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- $0.426 > 0.246 > 0.024$