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Ch-10 (Decimal)  
FRACTION

Exercise - 10 - A

1) Write the following 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 → Zero point zero one four.

e) 0.005 → Zero point zero zero five.

f) 0.038 → zero point zero three eight.

g) 0.0036 → zero point zero zero three six.

h) 27.075 → Twenty seven point zero seven five.

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

a) Two tenths → 

| Fraction                     | Decimal |
|------------------------------|---------|
| $\frac{2}{10} = \frac{1}{5}$ | 0.2     |

b) Four and five tenths →  $4\frac{5}{10} = 4\frac{1}{2} = 4.5$

c) Five hundredths →  $\frac{5}{100} = \frac{1}{20} = 0.05$

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

e) Seventy two hundredths →  $\frac{72}{100} = \frac{18}{25} = 0.72$

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

g) Five thousandths →  $\frac{5}{1000} = \frac{1}{200} = 0.005$

Qh > Twenty eight thousandths =  $\frac{28}{1000} = \frac{7}{250} = 0.028$

Q3 > 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 >  $112\frac{9}{10} = 112.9$

Q4 > Write the following as a fraction or a mixed number. Give the answer in simplified form.

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

b >  $0.124 = \frac{124}{1000} = \frac{62}{500} = \frac{31}{250}$

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

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

e >  $9.05 = 9\frac{5}{100} = 9\frac{1}{20}$

f >  $30.09 = 30\frac{9}{100}$

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

Q5 > Give the place value of the underlined digit.

a >  $0.\underline{6}7 = \frac{6}{10} = 0.6$  (6 tenths)

b >  $0.\underline{1}63 = \frac{1}{10} = 0.1$  (1 tenth)

- c)  $0.279 = \frac{279}{1000} = 0.279$  (279 thousandths)
- d)  $4.16 = \frac{16}{100} = 0.16$  (16 hundredths)
- e)  $3.784 = \frac{784}{1000} = 0.784$  (784 thousandths)
- f)  $15.75 = \frac{75}{100} = 0.75$  (75 hundredths)
- g)  $16.12 = \frac{12}{100} = 0.12$  (12 hundredths)

Exercise 10-A

6) Write in Expanded Form

a)  $0.48 = 0.4 + 0.08$   
 $= 4 \text{ tenths} + 8 \text{ hundredths}$   
 $= \frac{4}{10} + \frac{8}{100}$

b)  $0.714 = 0.7 + 0.01 + 0.004$

c)  $1.75 = 1 + 0.7 + 0.05$

d)  $23.345 = 20 + 3 + 0.3 + 0.04 + 0.005$

e)  $9.062 = 9 + 0.06 + 0.002$

f)  $52.005 = 50 + 2 + 0.005$

g)  $5.015 = 5 + 0.01 + 0.005$

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

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### Exercise 10-1

Q7 > 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 >  $0.009 < 0.04$

Q8 > Arrange the following in ascending order using sign " $<$ ".

~~Q8~~ a >  $0.6, 0.43, 0.7$

Ans >  $0.43 < 0.6 < 0.7$

b >  $0.011, 0.8, 0.006$

Ans >  $0.006 < 0.011 < 0.8$

c >  $0.123, 0.321, 0.103$

Ans >  $0.103 < 0.123 < 0.321$

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 >  $11.112 < 11.21 < 11.211$

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Q9 Arrange the following in descending order using the sign '>'.  
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 =  $0.426 > 0.246 > 0.024$