

Ch-10 - DECIMAL FRACTIONS

Place value chart

T	H	T	O	P	T	H	T
H	V	E	N	O	E	O	H
O	N	N	E	I	N	N	O
TU	D	S	S	N	T	P	V
S	R			T	H	R	S
A	E				S	E	AA
N	D					D	N
D	S					T	D
S						HS	THAS
8	9	1	2	.	3	1	2

2 Eight thousand two hundred ten point three one two

1 a) 0.9 = Point nine

b) 0.07 = Point zero seven

c) 0.083 = Point zero eight three

d) 0.014 = Point zero one four

e) 0.005 = Point zero zero five

f) 0.038 = Point zero three eight

g) 0.0036 = Point zero zero three six

1 ~~(a) 27.075~~ (b) 27.075 = twenty seven point zero seven five

2 (a) Two tenths - (a) $\frac{2}{10}$ (b) ~~0.2~~

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

(c) Five hundredths - (a) $\frac{5}{100} = \frac{1}{20}$ (b) 0.05

(d) Eleven and three hundredths = ~~11.03~~ (a) ~~11.03~~ (b) 11.03

(e) seventy two hundredths - (a) ~~$\frac{72}{100} = \frac{18}{25}$~~ (b) $\frac{72}{100} = \frac{18}{25}$

(f) sixteen and 27 hundredths - (a) $16\frac{27}{100}$ (b) 16.27

(g) five thousandths = (a) $\frac{5}{1000} = \frac{1}{200}$ (b) 0.005

(h) Twenty eight thousandths - (a) $\frac{28}{1000} = \frac{7}{250}$ (b) $\frac{28}{1000} = \frac{7}{250}$

3. (a) $\frac{12}{100} = .12$

(d) $\frac{35}{1000} = .035$

(b) $\frac{37}{100} = .37$

(e) $\frac{112}{1000} = .112$

(c) $\frac{1}{1000} = .001$

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

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

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

(b) $0.\underline{16}3 = 16 \text{ hundredths}$

(c) $0.\underline{279} = 279 \text{ thousandths}$

(d) ~~0.05~~ $0.\underline{16} = 16 \text{ hundredths}$

(e) $3.\underline{784} = 784 \text{ thousandths}$

(f) $15.\underline{75} = 75 \text{ hundredths}$

(g) $16.\underline{12} = 12 \text{ hundredths}$

6. (a) $0.48 =$

~~$0.4 + 0.08$~~ $0 + \frac{4}{10} + \frac{8}{100}$

(b) $0.714 =$

$= 0 + 0.7 + 0.01 + 0.004$

(c) $1.\underline{75} =$

$= 1 + 0.7 + 0.05$

(d) $23.\underline{345} =$

$= 20 + 3 + 0.3 + 0.04 + 0.005$

(e) $9.\underline{062} =$

$$= 9 + \text{~~4~~} + \frac{6}{100} + \frac{2}{1000}$$

$$(e) 52.005$$

$$= 50 + 2 + \text{~~10~~} + \frac{5}{1000}$$

$$(g) 5.015$$

$$= \text{~~5~~} + 5 + \frac{1}{100} + \frac{5}{1000}$$

$$(h) 815.426$$

$$= 800 + 10 + 5 + 0.4 + 0.02 + 0.006$$

$$4. (a) 0.45$$

$$= \frac{45}{100} = \frac{9}{20}$$

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

$$(c) 0.049$$

$$= \frac{49}{1000}$$

$$(d) 0.055$$

$$= \frac{55}{1000} = \frac{11}{200}$$

$$(e) 9.05$$

$$= 9 \frac{5}{100} = 9 \frac{1}{20}$$

$$(f) ~~30.09~~ 30.09$$

$$= 30 \frac{9}{100}$$

$$(g) 100.225$$

$$= 100 \frac{225}{1000} = 100 \frac{45}{200} = 100 \frac{9}{40}$$