

SESSION: 11

CLASS: V

SUBJECT: MATHEMATICS

CHAPTER NUMBER: 10

CHAPTER NAME: DECIMAL FRACTIONS

SUB-TOPIC: CONVERSION OF DECIMAL FRACTIONS INTO COMMON

FRACTION AND VICE VERSA

EXERCISE 10 A Q.NO. 10 & 11

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE:

Enable the students

- To convert the decimal fractions into common fractions
- To convert common fractions into decimal fractions



CONVERSION OF DECIMAL FRACTIONS INTO COMMON FRACTION

Decimal To Fraction Conversion

COMMON FRACTION

EXAMPLE: 1

Conversion

a. 2.04 =
$$\frac{204}{100}$$

$$=2\frac{1}{25}$$

OR

b. 2.04 =
$$2\frac{4}{100}$$

$$=2\frac{1}{25}$$





CONVERSION OF DECIMAL FRACTIONS INTO COMMON FRACTION

Decimal To Fraction Conversion

MON FRACTION CON

Conversior

EXAMPLE: 2

a. 14. 235 =
$$\frac{14235}{1000}$$
 Lowest term = $\frac{2847}{200}$ = $\frac{14}{200}$

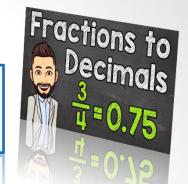
OR

b. 14. 235 = 14 +
$$\frac{235}{1000}$$
 = 14 $\frac{47}{200}$









DECIMAL FRACTION

EXAMPLE: 1

a.
$$\frac{3}{8} = \frac{3 \times 125}{8 \times 125} = \frac{375}{1000}$$

Change the denominator to a multiple of 10.

$$= 0.375$$

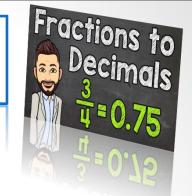
Then convert the fraction to decimal.





CONVERSION OF COMMON FRACTIONS INTO DECIMAL FRACTION





	. 3 7 5
8	3. 0 0 0 2 4
	6 0
	<u>56</u>
	4 0
	4 0
	0

- 1. Divide the numerator by the denominator.
- 2. When **DIVIDEND** is smaller, put a decimal **point** in the dividend and quotient followed by **zero** to the **right of the decimal point**.
- 3. Keep dividing till the remainder is 0

$$\frac{3}{8} = .375$$

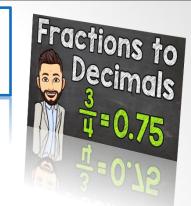




CONVERSION OF COMMON FRACTIONS INTO DECIMAL FRACTION

EXAMPLE: 5 DECIMAL FRACTION

a.
$$\frac{23}{4} = \frac{23 \times 25}{4 \times 25} = \frac{575}{100} = 5.75$$

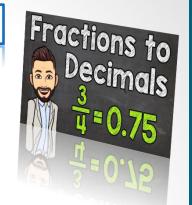


<u>OR</u>



EVENCISE TO -H

10. Convert the common fractions into decimal fractions



a
$$\frac{3}{4}$$
 = $\frac{3 \times 25}{4 \times 25}$ = $\frac{75}{100}$ = 0.75

b
$$\frac{7}{8}$$
 = $\frac{7 \times 125}{8 \times 125}$ = $\frac{875}{1000}$ = 0.875

$$c_{15} \frac{1}{4} = \frac{61}{4} = \frac{61 \times 25}{4 \times 25} = \frac{1525}{100} = 15.25$$

d.
$$\frac{3}{5} = \frac{103}{5} = \frac{103 \times 2}{5 \times 2} = \frac{206}{10} = 20.6$$

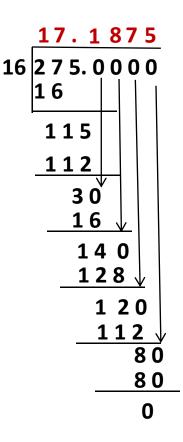




10. Convert the common fractions into decimal fractions

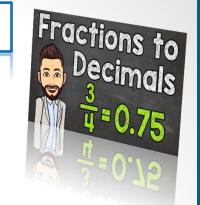
e.
$$17 \frac{3}{16} = \frac{275}{16}$$

$$17\frac{3}{16} = 17.1875$$





$$8 \frac{21}{40} = \frac{341}{40} = \frac{341 \times 25}{40 \times 25} = \frac{8525}{1000} = 8.525$$

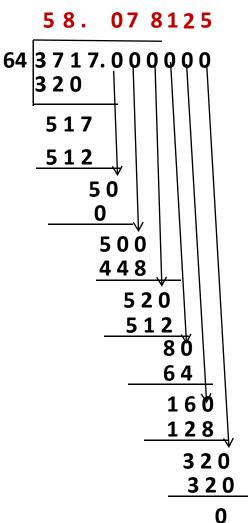




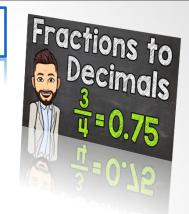
10. Convert the common fractions into decimal fractions

g.
$$_{58} \frac{5}{64} = \frac{3717}{64}$$

$$58 \frac{5}{64} = 58.078125$$









11.Convert the decimal fractions into common fraction

a. 0. 02 =
$$\frac{2}{100}$$
 = $\frac{1}{50}$

b. 0. 175 =
$$\frac{175}{1000}$$
 = $\frac{7}{40}$

c. 7. 60 =
$$7 + \frac{60}{100} = 7 \frac{3}{5}$$

d. 7. 625 =
$$7 + \frac{625}{1000} = 7 + \frac{25}{40} = \frac{7}{8}$$



Conversion







11.Convert the decimal fractions into common fraction

e. 6. 125 =
$$6 + \frac{125}{1000} = \frac{6}{8}$$

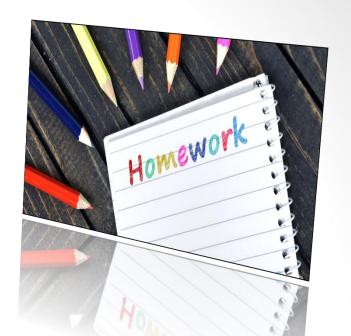
f. 3. 75 =
$$3 + \frac{75}{100} = 3 + \frac{3}{4}$$

g. 9. 55 = 9 +
$$\frac{55}{100}$$
 = 9 $\frac{11}{20}$









➤ Complete exercise 10 A q.no. 10 & 11 in the note book.





Students are able to convert decimal to fractions and vice versa.



THANKING YOU ODM EDUCATIONAL GROUP

