

21.9.21
Tuesday

Exercise - 10(A)

10. Convert the following 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. $20 \frac{3}{5} = \frac{103}{5} = \frac{103 \times 2}{5 \times 2} = \frac{206}{10} = 20.6$

e. $17 \frac{3}{16} = \frac{275}{16} = 17.1875$

16	275.000
	16 ↓
	115
	12 ↓
	36
	16 ↓
	140
	128 ↓
	120
	112
	88

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

g. $58 \frac{5}{64} = \frac{3712}{64} = 58.078125$

0.078125

64

5.0000000

0 ↓

~~500~~

448 ↓

520

512 ↓

80 ↓

64 ↓

160

28 ↓

320

320

0

$58 + 0.078125 = 58.078125$

11. Convert the following decimal fractions into common fractions.

$$1. \quad 0.02 = \frac{2}{100} = \frac{1}{50}$$

$$2. \quad 0.175 = \frac{175}{1000} = \frac{7}{40}$$

$$3. \quad 7.60 = 7 + \frac{60}{100} = 7\frac{3}{5}$$

$$4. \quad 7.625 = 7 + \frac{625}{1000} = 7 + \frac{25}{40} = 7\frac{5}{8}$$

$$5. \quad 6.125 = 6 + \frac{125}{1000} = 6 + \frac{25}{200} = 6\frac{5}{40} = 6\frac{1}{8}$$

$$6. \quad 3.75 = 3 + \frac{75}{100} = 3 + \frac{15}{20} = 3\frac{3}{4}$$

$$7. \quad 9.55 = 9 + \frac{55}{100} = 9\frac{11}{20}$$