RD Sharma Solutions for Class-9

RD Sharma solutions for chapter 1

RD Sharma Solutions for Chapter 1 - Number System

Exercise-1.2

1. Solution:

(i) By long division method

400

200

200

0

Terefore, 42/100 = 0.42

(ii) By long division method

500)327.000 (0.654

3000

2700

2500

2000

2000

0

Therefore, 327/500 = 0.654

(ii) By long division method

4) $\overline{15.00}$ (3.75

12

30

28

20

20

 $\bar{0}$

Therefore, 15/4 = 3.75

2. Solution:

(i) By long division method

3) 2.0000 (0.66

18

20

18

 $\bar{2}$

Therefore, 2/3 = 0.6

(ii) By long division method

9) 4.000 (0.444

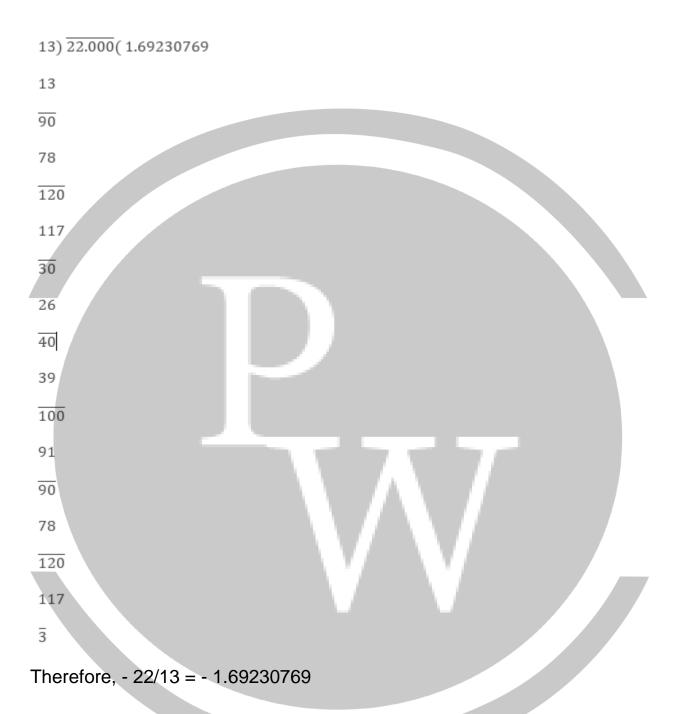
Therefore, -4/9 = -0.444

(iii) By long division method

- 15) 2.00(1.333

Therefore, 2/15 = -1.333

(iv) By long division method



(v) By long division method



Therefore, 437/999 = 0.43743

3. Solution:

The property is if the denominators have factors 2 or 5 or both, the decimal representation will be terminating e.g.

$$\frac{1}{2} = 0.5, \ \frac{1}{4} = 0.25, \ \frac{1}{5} = 0.2,$$

$$\frac{1}{10} = 0.1, \ \frac{1}{20} = 0.5, \ \frac{3}{8} = 0.125,$$

$$\frac{3}{40}$$
 = 0.075 etc.

