

Chapter 1 :- Number System

Exercise 1A

Answer 1. Yes 0 is rational number because 0 can be written as $\frac{0}{1}$ which is in form of $\frac{p}{q}$ where p and q are integers and $q \neq 0$

Answer 2.i) $\frac{5}{2} = 1.4$



ii) $\frac{8}{3} = 2.6$



iii) $-\frac{23}{6} = -3.83$



iv) 1.3



v) -2.4



Answer 3. i) $\frac{3}{8}$ and $\frac{2}{5}$

Let, $\frac{3}{8} = x$ and $\frac{2}{5} = y$

Rational number lying between these two are

$$\frac{1}{2}(x + y) = \frac{1}{2}\left(\frac{3}{8} + \frac{2}{5}\right) = \frac{1}{2} \times \frac{31}{40} = \frac{31}{80}$$

ii) 1.3 and 1.4

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