

P. 121 Real Numbers Sept. 11, 2012

1. State which are rational numbers

a) $\frac{1}{2} = 0.5$ terminating decimal

d) $\frac{-3}{0} =$ error it is impossible to divide by zero.

e) $\frac{-0}{4} = 0$

h) $\sqrt{5} = 2.236067978$

Rational numbers in decimal form are either terminating or repeating. eg. $\frac{1}{2} = 0.5$

$$\frac{1}{3} = 0.\overline{3}$$

Irrational numbers are non-terminating and non-repeating
like $\pi = 3.14159 \dots$

2. $-\frac{2}{5} = -\frac{4}{10}$

equivalent form

3. $\frac{7}{1} = \frac{14}{2}$

10. $\frac{4}{8} \div \frac{4}{4} = \frac{1}{2}$

lowest terms

11. $-\frac{3}{6} \div \frac{3}{3} = -\frac{1}{2}$

18. mixed fraction $\rightarrow$ improper fraction

$$2\frac{3}{4} = \frac{11}{4}$$

19. $5\frac{1}{3} = \frac{16}{3}$ * $-\frac{1}{5 \times 3} = -\frac{1}{15}$

26. $0.5 = \frac{1}{2}$ in the form $\frac{a}{b}$, lowest terms

27. $-\frac{5}{10} = -\frac{1}{2}$

$$-0.4 = -\frac{4}{10} = -\frac{2}{5}$$

$$28. \quad 1.4 \xrightarrow{\text{tenth}} = 1 \overset{+}{\times} \frac{4}{10} = \frac{14}{10} = \frac{7}{5}$$

$$32. \quad \$0.36 \xrightarrow{\text{tenth}} = \frac{36}{100} = \frac{18}{50} = \frac{9}{25}$$

$$34. \quad 1.62 \xrightarrow{\text{hundredth}} = 1 \frac{62}{100} = \frac{162}{100} = \frac{81}{50}$$

$$= 1 \frac{31}{50} = \frac{81}{50}$$

homework

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