

Assignment 16 Monday

1. Write four more rational numbers in each of the following patterns:

(i) $\frac{2}{3}, \frac{4}{6}, \frac{6}{9}, \frac{8}{12}, \text{—————}$

(ii) $-\frac{5}{7}, -\frac{10}{14}, -\frac{15}{21}, \text{—————}$

(iii) $\frac{1}{2}, -\frac{2}{4}, \frac{3}{6}, -\frac{4}{8}, \text{—————}$

(iv) $-\frac{3}{4}, -\frac{6}{8}, -\frac{9}{12}, -\frac{12}{16}, \text{—————}$

2. Write four more rational numbers in each of the following patterns:

(i) $\frac{7}{10}, \frac{14}{20}, \frac{21}{30}, \frac{28}{40}, \text{—————}$

(ii) $-\frac{1}{5}, \frac{2}{10}, -\frac{3}{15}, \frac{4}{20}, \text{—————}$

(iii) $\frac{9}{11}, \frac{18}{22}, \frac{27}{33}, \text{—————}$

(iv) $-\frac{4}{9}, -\frac{8}{18}, -\frac{12}{27}, -\frac{16}{36}, \text{—————}$

3. Write four more rational numbers in each of the following patterns:

(i) $\frac{5}{8}, \frac{10}{16}, \frac{15}{24}, \frac{20}{32}, \text{—————}$

(ii) $-\frac{2}{11}, -\frac{4}{22}, -\frac{6}{33}, \text{—————}$

(iii) $\frac{3}{5}, -\frac{6}{10}, \frac{9}{15}, -\frac{12}{20}, \text{—————}$

(iv) $-\frac{1}{3}, \frac{2}{-6}, \frac{3}{-9}, \frac{4}{-12}, \text{—————}$

5. Write four more rational numbers in each of the following patterns:

(i) $\frac{4}{15}, \frac{8}{30}, \frac{12}{45}, \frac{16}{60}, \text{—————}$

(ii) $-\frac{3}{8}, -\frac{6}{16}, -\frac{9}{24}, \text{—————}$

(iii) $\frac{5}{9}, -\frac{10}{18}, \frac{15}{27}, -\frac{20}{36}, \text{—————}$

(iv) $-\frac{6}{7}, \frac{12}{-14}, \frac{18}{-21}, \frac{24}{-28}, \text{—————}$

Assignment 17 Monday

1. Fill in the boxes with the correct symbol out of $>$, $<$, and $=$.

(i) $\frac{-3}{4} \square \frac{5}{8}$

(ii) $\frac{-7}{9} \square \frac{-5}{6}$

(iii) $\frac{12}{-15} \square \frac{-4}{5}$

(iv) $\frac{-11}{7} \square \frac{-13}{8}$

(v) $\frac{2}{-3} \square \frac{-5}{9}$

(vi) $\frac{7}{-12} \square \frac{-14}{24}$

2. Fill in the boxes with the correct symbol out of $>$, $<$, and $=$.

(i) $\frac{-9}{10} \square \frac{3}{5}$

(ii) $\frac{-2}{7} \square \frac{-5}{14}$

(iii) $\frac{16}{-20} \square \frac{-8}{10}$

(iv) $\frac{-15}{11} \square \frac{-9}{7}$

(v) $\frac{4}{-9} \square \frac{-7}{18}$

(vi) $\frac{5}{-13} \square \frac{-10}{26}$

3. Fill in the boxes with the correct symbol out of $>$, $<$, and $=$.

(i) $\frac{-5}{6} \square \frac{7}{9}$

(ii) $\frac{-3}{8} \square \frac{-4}{9}$

(iii) $\frac{18}{-24} \square \frac{-3}{4}$

(iv) $\frac{-17}{12} \square \frac{-10}{7}$

4. Fill in the boxes with the correct symbol out of $>$, $<$, and $=$.

(i) $\frac{-8}{11} \square \frac{6}{13}$

(ii) $\frac{-5}{12} \square \frac{-7}{15}$

(iii) $\frac{21}{-28} \square \frac{-9}{12}$

(iv) $\frac{-19}{14} \square \frac{-11}{8}$

(v) $\frac{3}{-7} \square \frac{-8}{21}$

(vi) $\frac{12}{-18} \square \frac{-2}{3}$

5. Fill in the boxes with the correct symbol out of $>$, $<$, and $=$.

(i) $\frac{-4}{5} \square \frac{9}{10}$

(ii) $\frac{-7}{16} \square \frac{-9}{20}$

(iii) $\frac{24}{-30} \square \frac{-12}{15}$

(iv) $\frac{-13}{9} \square \frac{-15}{10}$

(v) $\frac{5}{-8} \square \frac{-11}{16}$

(vi) $\frac{14}{-21} \square \frac{-2}{3}$

Assignment 18 Tuesday

1. $\frac{7}{8} + \frac{-5}{12} - \frac{1}{6}$

2. $-\frac{11}{15} + \frac{7}{20} - \frac{3}{10}$

3. $\frac{9}{14} - \frac{5}{21} + \frac{11}{42}$

4. $-\frac{13}{18} + \frac{4}{9} - \frac{5}{27}$

5. $\left(\frac{5}{6} - \frac{7}{15}\right) + \frac{11}{30}$

6. $\frac{-17}{20} - \left(\frac{3}{10} - \frac{7}{25}\right)$

7. $\left(-\frac{9}{16} + \frac{5}{8}\right) - \frac{3}{32}$

8. $\frac{13}{24} - \frac{7}{18} + \frac{5}{12}$

9. $-\frac{15}{22} + \frac{9}{11} - \frac{7}{33}$

10. $\left(\frac{11}{12} - \frac{5}{18}\right) + \frac{7}{9}$

11. $\frac{-19}{21} - \left(\frac{8}{21} - \frac{5}{14}\right)$

12. $\left(-\frac{7}{10} + \frac{9}{25}\right) - \frac{11}{50}$

13. $\frac{15}{28} - \frac{9}{14} + \frac{5}{7}$

14. $-\frac{23}{30} + \frac{7}{15} - \frac{2}{9}$

15. $\left(\frac{13}{18} - \frac{4}{9}\right) + \left(\frac{5}{12}\right)$