

20.4.21

Associativity

For any rational numbers a, b and c

$$a + (b + c) = (a + b) + c$$

So, addition is associative for rational numbers.

Page-9 Try These (Table)

Page-8 (H.W.)

(H.W.)

Find $\frac{-1}{2} \left[\frac{3}{7} + \left(\frac{-4}{3} \right) \right]$

H.W. Copy

$$= \frac{-1}{2} + \left[\frac{3}{7} + \left(\frac{-4}{3} \right) \right]$$

$$= \frac{-1}{2} + \left(\frac{9-28}{21} \right)$$

$$= \frac{-1}{2} + \frac{-19}{21}$$

$$= \frac{-21-38}{42}$$

$$= \left[\frac{-59}{42} \right]$$

$$\left[\frac{-1}{2} + \frac{3}{7} \right] + \left(\frac{-4}{3} \right)$$

$$= \left(\frac{-7+6}{14} \right) + \left(\frac{-4}{3} \right)$$

$$= \frac{-1}{14} + \left(\frac{-4}{3} \right)$$

$$= \frac{-3-56}{42}$$

$$= \left[\frac{-59}{42} \right]$$