

**Exercise 75**

**Distance** Find the distance between the given numbers.

(a) 2 and 17      (b)  $-3$  and  $21$       (c)  $\frac{11}{8}$  and  $-\frac{3}{10}$

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**Solution**

The distance between the numbers is the absolute value of their difference.

(a)  $|2 - 17| = |-15| = 15$

(b)  $|-3 - 21| = |-24| = 24$

(c)  $\left| \frac{11}{8} - \left( -\frac{3}{10} \right) \right| = \left| \frac{110}{80} + \frac{24}{80} \right| = \left| \frac{134}{80} \right| = \frac{134}{80} = \frac{67}{40}$