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### 3.3 Practice - Subtracting Rational Numbers

1. Determine each difference.
a) $-\frac{3}{4}-\frac{1}{2}$
b) $3 \frac{3}{5}-\left(-5 \frac{1}{2}\right)$
2. Two climbers leave base camp at the same time. Climber A ascends 20.4 m , while climber B descends 35.4 m . How far apart are the climbers? Write a subtraction statement using rational numbers to solve the problem.
3. Determine each difference.
a) $\frac{17}{3}-\frac{19}{2}$
b) $-\frac{13}{5}-\frac{7}{3}$
c) $1 \frac{5}{6}-6 \frac{3}{4}$
d) $-\frac{19}{6}-\frac{7}{8}$
e) $\frac{15}{4}-\frac{5}{12}$
f) $-2 \frac{1}{8}-\left(-4 \frac{1}{3}\right)$
4. Determine each difference.
a) $-4.7-5.9$
b) $0.94-1.35$
c) $-43.91-(-9.44)$
5. In Asia, the lowest point on land is the shore of the Dead Sea, which is 417.5 m below sea level. The highest point is the peak of Mount Everest, which is 8844.43 m above sea level.
a) Write each measurement above as a rational number.
b) Write a subtraction statement that represents the distance between the lowest point and the highest point. What is this distance?

### 3.3 Practice - Answers

$\begin{array}{ll}\text { 1. a) }-1 \frac{1}{4} & \text { b) } 9 \frac{1}{10}\end{array}$
2. $20.4-(-35.4)=55.8$; the distance between the climbers is 55.8 m .
3. a) $-3 \frac{5}{6}$
b) $-4 \frac{14}{15}$
c) $-4 \frac{11}{12}$
d) $-4 \frac{1}{24}$
e) $3 \frac{1}{3}$
f) $2 \frac{5}{24}$
4. a) -10.6
b) -0.41
c) -34.47
$\begin{array}{ll}\text { 5. a) }-417.5 \text { and } 8844.43 & \text { b) } 8844.43-(-417.5)=9261.93 \mathrm{~m}\end{array}$

