[rational numbers]

1. Calculate
   a. $-3 + 8$
   b. $-6 + (-3)$
   c. $8 - (-3)$
   d. $9 + (-6) - (-3)$
   e. $8(-3)$
   f. $-3(-2)$
   g. $-54 \div (-18)$
   h. $32 \div (-8)$

2. Calculate
   a. $10 + (-5) - 1(8)$
   b. $10 \div (-5) \times 1 + 8$
   c. $(-20 + 5) \div (-5)$
   d. $-16 \div [-4 - 4]$
   e. $\frac{(-5)(6) - (7)(-3)}{(7)(-3) - (-3)(6)}$

3. Write in lowest terms (simplest terms)
   a. $\frac{-3}{-15}$
   b. $\frac{-12}{9}$
   c. $\frac{27}{-54}$

4. Write as a fraction
   a. 0.575
   b. -0.06

5. Write as a decimal
   a. $\frac{7}{8}$
   b. $\frac{5}{6}$
   c. $\frac{-3}{7}$

6. Simplify and put your answers in simplest form
   a. $\frac{2}{3} + \frac{3}{4}$
   b. $\frac{8}{9} - \frac{5}{6}$
   c. $1\frac{2}{3} + 2\frac{3}{4}$
   d. $-2\frac{1}{6} - 1\frac{1}{5}$
   e. $2\frac{1}{3} + \left(\frac{-1}{2}\right)$
   f. $\frac{-3}{5} - \frac{-1}{-10}$
   g. $-\frac{3}{5} + \left(\frac{2}{3} - \frac{1}{-5}\right)$
   h. $\left(1\frac{1}{5}\right)\left(-1\frac{2}{3}\right)$
   i. $\frac{-5}{12} \div \frac{-1}{3}$
   j. $\left(-3\frac{1}{4}\right) \div \left(\frac{-2}{3}\right)$
   k. $\frac{7}{3}\left(-3\frac{1}{2}\right)$
   l. $\frac{2}{5} \div \left(\frac{-2}{5} + \frac{1}{10}\right)$
   m. $-\frac{5}{6} + \frac{-2}{3} \times \frac{3}{4}$
   n. $1\frac{1}{2} - \frac{-1}{4} \times \frac{2}{3}$
   o. $\left(-3\frac{1}{2} \times 1\frac{1}{4}\right) - \left(\frac{7}{8} \times 5\right)$
   p. $\left(-4\frac{1}{2} + \frac{1}{3}\right) \times \frac{3}{5}$
   q. $-2\frac{3}{4} \div \left(\frac{1}{2} + \frac{3}{5}\right)^2$

7. Into how many pieces can a $9\frac{3}{8}$ kg bar be cut, if each section is $1\frac{7}{8}$ kg?

worksheets