Multiplication and Division of Rational Numbers - Guided Lesson Explanation

Explanation#1

Apply the distributive property:

8(6t + 2)

8(6t) + 8(2)

48t + 16 There are no like terms to combine.

Explanation#2

The fraction $\frac{3}{-7}$ is already in its simplest form. Reduce all the other fractions to see which fraction is equivalent to it.

We will find that choice a is an equivalent fraction:

$$\frac{9}{-21} = \frac{3}{-7}$$

b is the right answer $\frac{9}{-21}$

Explanation#3

In order to get a positive product from a negative number, we know that the equation must follow this pattern:

negative × negative = positive (Our answer must be negative.)

Now we need to determine what times 2 equals 18. We can call the blank (m). So now it looks like:

 $m \times -2 = 18$ (To get m by itself, we can divide both sides by -2)

 $m = 18 \div -2$ m = -9

The number -9 gives the correct result of 18, so the answer is -9.

