

To convert the decimal -0.366666666666 into a fraction, we will follow these steps:

1. **Identify the Decimal:** The given number is -0.366666666666.
2. **Separate the Whole Number:** In this case, the whole number part is 0, so we only need to deal with the decimal part: -0.366666666666.
3. **Convert to Fraction:** The decimal 0.366666666666 can be expressed as:

0.366666666666 is equivalent to 0.37 (for rounding) but we need to recognize that it is a repeating decimal - specifically, we can express this decimal as:

$$-0.36\overline{6}$$

Where the bar indicates that the '6' repeats indefinitely. To convert this repeating decimal into a fraction:

1. Name the repeating decimal: Let $x = -0.36\overline{6}$
2. Multiply by a power of 10 to shift the decimal point:
 $10x = -3.6\overline{6}$
3. Set up an equation:
 $10x = -3.6\overline{6}$
 $x = -0.36\overline{6}$
4. Now subtract the second equation from the first:
 $10x - x = -3.6\overline{6} - (-0.36\overline{6})$
5. Simplifying gives:
 $9x = -3.3$
6. Now, solve for x:
 $x = -3.3 / 9$
7. Convert -3.3 to a fraction:
 $-3.3 = -33/10$, so
 $x = -33/10 / 9 = -33/90$

After simplifying the fraction:

$$-33/90 = -11/30 \text{ (dividing the numerator and denominator by 3).}$$

Therefore, the final answer is:

-0.366666666666 as a fraction is -11/30.

In summary: $-0.366666666666 = -11/30$