Advanced Operations Involving Fractions and Absolute Value

Solve the advanced problems below.

1. \( \frac{1}{-6} \times \frac{36}{2} \times 5 = \)

Explanation.

Step 1) Find the absolute value of values in the brackets. Simplify.

\[ \frac{1}{-6} \times \frac{36}{2} \times 5 = \]

\[ \frac{1}{-6} \times 18 \times 5 = \]

Step 2) Solve the operations.

\[ \frac{1}{-6} \times 90 = -15 \]

2. \(|-44| \times \left| -\frac{1}{11} \right| \times \frac{400}{100} = \)

Explanation.

Step 1) Find the absolute value of values in the brackets. Simplify.

\[ |-44| \times \left| -\frac{1}{11} \right| \times \frac{400}{100} = \]

\[ 44 \times \frac{1}{11} \times \frac{400}{100} = 44 \times \frac{1}{11} \times 4 = 176 \times \frac{1}{11} \]

Step 2) Multiply to solve.

\[ 176 \times \frac{1}{11} = 16 \]