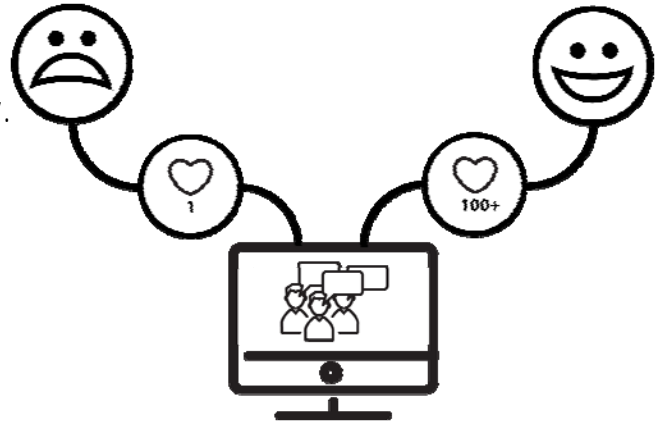# Polynomial Division Step-by-Step Lesson

Directions: Find the quotient below.

$$\frac{21t^3 + 35t + 14}{7t}$$

Restate the Problem:

$7t\overline{)21t^2 + 35t + 14}$

Solve:

Step 1: Divide 21t² by 7t   (21t² ÷ 7t) = 3t

Step 2: Divide 35t by 7t   (35t ÷ 7t) = 5

Step 3: Divide 14 by 7t   (14 ÷ 7t) = $\frac{2}{t}$

Step 4: Put it all together: 3t + 5 + $\frac{2}{t}$