Number

Activity 18 Assessment Determining Unknown Values in Proportional Situations

Determining Unknown Values in Proportional Situations			
Understands and describes a proportional situation	Uses a ratio table to determine an unknown value	Uses a scale factor to determine an unknown value	Uses a proportion to determine an unknown value
"In a proportional situation, the two variables change at the same rate. They have the same ratio. For example, if 1 pineapple costs \$5, then 2 pineapples cost \$10."	In a lake, the ratio of yellow perch to northern pike caught is approximately 8:3. 150 northern pike were caught. About how many yellow perch were caught? <u>YP NP</u> <u>8 3</u> <u>80 30</u> <u>800 300</u> <u>400 150</u> "About 400 yellow perch were caught."	In a lake, the ratio of yellow perch to northern pike caught is approximately 8:3. 150 northern pike were caught. About how many yellow perch were caught? "The scale factor is: $\frac{YP}{NP} = \frac{8}{3}$ So, the number of yellow perch caught is: $\frac{8}{3} \times 150 = 400$ About 400 yellow perch were caught."	In a lake, the ratio of yellow perch to northern pike caught is approximately 8:3. 150 northern pike were caught. About how many yellow perch were caught? "Let <i>y</i> represent the number of yellow perch caught. $\frac{\times 50}{y = 8} \frac{8}{3}$ $\frac{\times 50}{y = 8 \times 50}$ $y = 8 \times 50$ $y = 400$ About 400 yellow perch were caught."
Observations/Documentation			