Grade 8 Mathematics Worksheet

Algebraic expressions and substitutions

Questions:

What is the value of the expression $\dfrac{5x+5}{14x-7}$ in simplest form if $x=5$?

Solution

$$\left.\frac{5x+5}{14x-7}\right|_{x=5}$$

$$=\frac{5(5)+5}{14(5)-7}$$

$$=\frac{30}{63}$$

$$=\frac{10}{21}$$

The notation is important. We can write that if x = 5 then…. But the notation used in the solution should be encouraged.