**Multiple choice.** Select the letter of the correct answer.

|  |  |
| --- | --- |
| **1.** | **The value of**  $100-\left(-\frac{8}{2}\right)-0.8$ **is:** |
|  | a.) $103.2$ | b.) $102.3$ |
|  | c.) $99.8$ | d.) $109.8$ |

|  |  |
| --- | --- |
| **2.** | **The value of**  $-\frac{5}{10}-\left(-\frac{4}{10}\right)÷\frac{3}{5}$ **is:** |
|  | a.) $\frac{-1}{6}$ | b.) $\frac{1}{6}$ |
|  | c.) $\frac{5}{15}$ | d.) $\frac{-6}{25}$ |

|  |  |
| --- | --- |
| **3.** | **The value of**  $2.45-\left(-2.5\right)-7.3$ **is:** |
|  | a.) $-1.8$ | b.) $2.35$ |
|  | c.) $ 1.8$ | d.) $-2.35$ |

**Evaluate the expression for the given values of** $x$ **and** $y$**.**

|  |  |
| --- | --- |
| **4.**  | $x-xy+(x-y)$$$x=-2.56 y=1.23$$ |
|  |  |
| **5.**  | $x^{2}-y^{2}÷\left(x-y\right)$$$x=-\frac{1}{2}, y=\frac{2}{3}$$ |
|  |  |

**ANSWERS**

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**Evaluate the expression for the given values of** $x$ **and** $y$**.**

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| --- | --- |
| **4.**  | $x-xy+(x-y)$ $$x=-2.56 y=1.23$$ |
|  | $= x-xy+\left(x-y\right)$ $$=-2.56-\left(-2.56\right)\*1.23+\left(-2.56-1.23\right)$$$$=-2.56-\left(-\frac{256}{100}\right)\*\frac{123}{100}+\left(-3.79\right)$$$$=-2.56-\left(-\frac{256\*123}{10,000}\right)+\left(-3.79\right)$$$$=-2.56-\left(-\frac{31,488}{10,000}\right)+\left(-3.79\right)$$$$=-2.56-\left(-3.1488\right)+\left(-3.79\right)$$$$=-2.56+3.1488-3.79$$$$=0.5888-3.79$$$$=-3.2012$$ |
| **5.**  | $x^{2}-y^{2}÷\left(x-y\right)$ $$x=-\frac{1}{2}, y=\frac{2}{3}$$ |
|  | $= -y^{2}÷\left(x-y\right)$ $$=\left(-\frac{1}{2}\right)^{2}-\left(\frac{2}{3}\right)^{2}÷\left(-\frac{1}{2}-\frac{2}{3}\right)$$$$=\frac{1}{4}-\frac{4}{9}÷\left(-\frac{3}{6}-\frac{4}{6}\right)$$$$=\frac{1}{4}-\frac{4}{9}÷\left(-\frac{7}{6}\right)$$$$=\frac{1}{4}-\frac{4}{9}\*\frac{\left(-6\right)}{7}$$$$=\frac{1}{4}+\frac{4\*\left(-2\right)\*3}{3\*3\*7}$$$$=\frac{1}{4}+\frac{4\*\left(-2\right)}{3\*7}$$$$=\frac{1}{4}+\frac{\left(-8\right)}{21}$$$$=\frac{21}{84}-\frac{32}{84}$$$$=\frac{-11}{84}$$ |