

Name:**Class:****Date:****Question #1****Solve:** $|4x - 5| - 3 = 15$

A $x = -\frac{7}{4}$ and $x = \frac{17}{4}$

B $x = -\frac{13}{4}$ and $x = \frac{23}{4}$

C $x = -2$ and $x = \frac{9}{2}$

D $x = -\frac{5}{4}$ and $x = \frac{23}{4}$

Question #2**How many values of x will satisfy the equation $|5x - 6| = 5 - x$?**

A 0

B 3

C 1

D 2

Question #3**What is the solution of $|2w - 7| + 3 < 5$?**

A $2.5 < w < 4.5$

B $-4.5 < w < -2.5$

C $w < 2.5$ and $w > 4.5$

D $w < -2.5$ and $w > -4.5$

Question #4

If the average internal body temperature for an animal is $92.5^{\circ}F$ and it can vary by as much as $0.6^{\circ}F$. Which of the following absolute value equation's solutions represent the lowest and highest normal temperatures?

A $|x + 0.6| = 92.5$

B $|x + 92.5| = 0.6$

C $|x - 92.5| = 0.6$

D $|x - 0.6| = 92.5$

Question #5

Match each equation with its solution set.

$3|2x - 5| - 2 = 7$

$-6|-5x + 2| - 2 = 14$

 $\{1, 4\}$ $\{0\}$

[no solution]

 $\{-1, 4\}$

[infinite solutions]

Question #6

Which of the following x values will make this inequality $3|4x + 5| \geq 24$ true?

	True	False
-7	<input type="radio"/>	<input type="radio"/>
0	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>
-2	<input type="radio"/>	<input type="radio"/>