Math 4 Classwork #16

1. Remove parenthesis and simplify:

$(2\boldsymbol{x} + 4\boldsymbol{y} + 3) : 4 + ½ \cdot (\boldsymbol{x} + 2\boldsymbol{y} - ½) =$ _____

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$⅕ \cdot (10\boldsymbol{w} - 15\boldsymbol{x}) + (18\boldsymbol{x} - 6\boldsymbol{w}) : 3 =$ _____

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$(½\ \boldsymbol{x} + 9\boldsymbol{w}) \cdot ⅓ - (2\boldsymbol{w} - ⅝\boldsymbol{x}) =$ _____

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2. Calculate:

$\frac{2}{3} + \frac{1}{5} =$ $\qquad$ $\frac{2}{3} - \frac{5}{6} =$

$\frac{3}{4} \times (\frac{6}{27}) =$_____ $\qquad$ $\frac{2}{3} \times \frac{4}{9} =$_____

$\frac{5}{7}x \cdot \frac{21}{100} =$_____ $\qquad$ $8x \cdot \frac{3}{4} =$_____

$2x \cdot \frac{3}{4} =$_____ $\qquad$ $12w \times \frac{5}{6} =$_____

3. Solve the equations:

$|x-4| = 3$ $\qquad$ $|3x| - x = 4$

4. Indicate the order of operations in the expressions below:

$3 : \boldsymbol{x} - 4 \cdot \boldsymbol{y}$ $\qquad$ $5\boldsymbol{z} + 12 \cdot (3\boldsymbol{x} + 1)$ $\qquad$ $(12\boldsymbol{x} + 4\boldsymbol{y}) : (\boldsymbol{z} + \boldsymbol{x})$

$\frac{x+y}{25 - 4}$ $\qquad$ $\frac{4x - 2\times\frac{1}{2}}{3x - 4y}$

5. How many times do you need to weigh coins on a two cup scale to find a single heavier fake coin among 27 ones?

6. Translate points and shapes according to the instructions given by the arrows: