Math 4 Classwork #8

1. Remove parentheses:

a). $2\cdot(11\boldsymbol{x} - 7\boldsymbol{y}) =$ _____ b. $(5\boldsymbol{y} - 7\boldsymbol{x})\cdot 3 =$ _____

c). $(3\boldsymbol{w} + 1)\cdot 3 =$ _____ d. $4\cdot(3 - 2\boldsymbol{w}) =$ _____

e). $(2\boldsymbol{x} + 3)\cdot 2 + 1 =$ _____

2. Show that …

a. $2\cdot(11\boldsymbol{x} - 7\boldsymbol{y}) + (5\boldsymbol{y} - 7\boldsymbol{x})\cdot 3 = \boldsymbol{x} + \boldsymbol{y}$

_____

b. $(3\boldsymbol{w} + 1)\cdot 3 + 4\cdot(3 - 2\boldsymbol{w}) = 15 + \boldsymbol{w}$

_____

3. Find …

$\frac{3}{4}$ *of* 28 is $\frac{7}{11}$ *of* 55 is $\frac{3}{5}$ *of* 30 is

4. Calculate:

$\frac{1}{8} + \frac{3}{8} =$ $\frac{2}{7} + \frac{3}{7} =$ $\frac{1}{9} + \frac{2}{9} =$

5. Simplify:

$\frac{4}{20} =$ $\frac{6}{8} =$ $\frac{12}{18} =$ $\frac{10}{35} =$ $\frac{12}{60} =$

6. Expand where necessary to make denominators like to compare (>, <, or =):

$\frac{4}{5} \square \frac{3}{7}$ $\frac{11}{16} \square \frac{5}{12}$ $\frac{7}{12} \square \frac{5}{9}$

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7. Calculate:

$\frac{1}{8} + \frac{3}{4} =$

$\frac{2}{5} + \frac{3}{8} =$

$\frac{5}{12} - \frac{1}{4} =$

$\frac{3}{5} - \frac{3}{8} =$

8. Calculate:

$2 \times 3 =$ $6 \times (-2) =$ $4 \times 5 =$ $4 \times (-5) =$

$(-2) \times 3 =$ $2 \times (-6) =$ $(-4) \times 5 =$ $(-4) \times (-5) =$

9. Solve the equations in your notebook:

$\frac{1}{5}x = 6$ $\frac{2}{7}y = 8$ $\frac{3}{11}w = 12$

10. Solve the equations in your notebook:

$8 - \frac{1}{5}x = 2$ $\frac{1}{5}x + 7 = 9$

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11. Plot a rhombus ***ABCD*** such that |***AB***| = 6 cm. Record your algorithm

_____

_____

_____

_____

A

C

12. Find all the points on the circle ***w*** that are 7 cm away from point ***A***.

_____

_____

A