Math 4 Homework #9

Solve in this handout:

1. Find …

$\frac{1}{5}$ *of* 7 $\frac{1}{4}$ *of* $\frac{1}{2}$ $\frac{3}{4}$ *of* $\frac{1}{2}$ $\frac{3}{4}$ *of* $\frac{1}{2}x$

2. $5 - 7 =$ $7 - 5 =$ $-2 + 3 =$ $-2 - (-3) =$

$|5 - 7| =$ $|7 - 5| =$ $|-2 + 3| =$ $|-2 - (-3)| =$

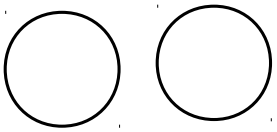
3. Calculate:

$\frac{5}{12} + \frac{5}{16} =$ $\frac{5}{12}x + \frac{5}{16}x =$

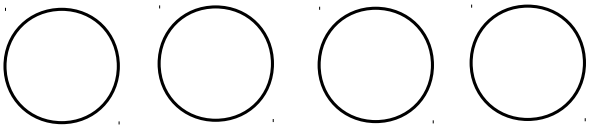
$\frac{5}{12} - \frac{5}{16}$ $\frac{5}{16} - \frac{5}{12} =$

4. Try to divide …

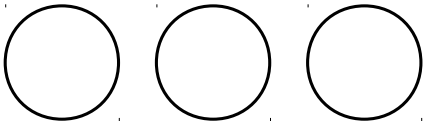
a). … 2 apples …



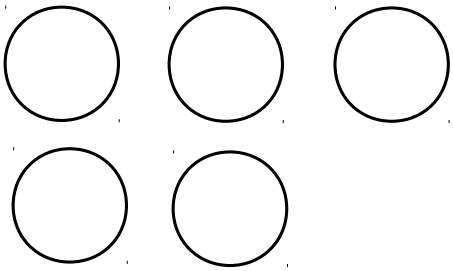
c). … 4 apples …



b). … 3 apples …



d). … 5 apples …



… equally among 6 people by cutting any apple into ***less than 6*** pieces.

5. Solve the following puzzle (each letter stands for a digit):

BAO × BA × B = 2002 **B = ____** **A = ____** **O = ____**

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6. Make Venn diagrams to find …

LCM(56, 42) = ___

GCD(56, 42) = ___

56 = _____ 42 = _____

LCM(96, 48) = ___

GCD(96, 48) = ___

96 = _____ 48 = _____

Solve in your notebook:

7. Show that …

a). $2(2\boldsymbol{y} - 2 + \boldsymbol{w}) + (\boldsymbol{w} + 4 - \boldsymbol{y})\cdot 3 = \boldsymbol{y} + 5\boldsymbol{w} + 8$

b). $(10 - 2\boldsymbol{x} + \boldsymbol{w})\cdot 3 + (3\boldsymbol{x} + 15 - \boldsymbol{w})\cdot 2 = \boldsymbol{w}$

8. Solve the equations:

$\frac{3}{4}w = 9$ $\frac{3}{4}x - 2 = 7$ $10 - \frac{2}{5}y = 2$

9. A conveyor has processed 100,000 pizzas in a factory by putting the following ingredients on top of pizzas in this order:

i. Canadian bacon onto every 8th pizza
ii. Pieces of pineapple onto every 9th pizza
iii. Green peppers onto every 12th pizza.

(a) How many of the pizzas have all the three toppings?
(b) How many of the pizzas have both Canadian bacon and green peppers but not pineapple?

Answers for #9: w = 12, x = 40/3, y = 20