

Solve in this handout:**1. Find ...**

$\frac{1}{5} \text{ of } 7$

$\frac{1}{4} \text{ of } \frac{1}{2}$

$\frac{3}{4} \text{ of } \frac{1}{2}$

$\frac{3}{4} \text{ of } \frac{1}{2}x$

2. $5 - 7 =$

$7 - 5 =$

$-2 + 3 =$

$-2 - (-3) =$

$|5 - 7| =$

$|7 - 5| =$

$|-2 + 3| =$

$|-2 - (-3)| =$

3. Calculate:

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

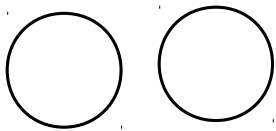
$\frac{5}{12}x + \frac{5}{16}x =$

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

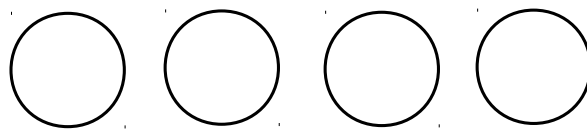
$\frac{5}{16} - \frac{5}{12} =$

4. Try to divide ...

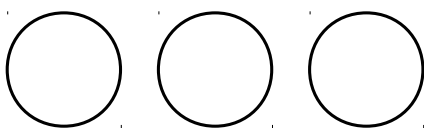
a). ... 2 apples ...



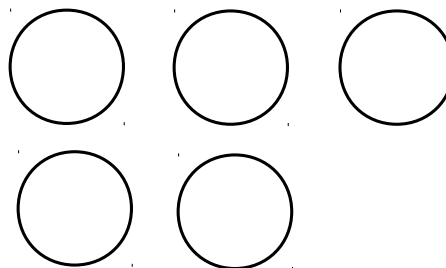
c). ... 4 apples ...



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):**

$BAO \times BA \times B = 2002 \quad \mathbf{B} = \underline{\quad} \quad \mathbf{A} = \underline{\quad} \quad \mathbf{O} = \underline{\quad}$

6. Make Venn diagrams to find ...

$$\text{LCM}(56, 42) = \underline{\hspace{2cm}}$$

$$\text{GCD}(56, 42) = \underline{\hspace{2cm}}$$

$$56 = \underline{\hspace{3cm}}$$

$$42 = \underline{\hspace{3cm}}$$

$$\text{LCM}(96, 48) = \underline{\hspace{2cm}}$$

$$\text{GCD}(96, 48) = \underline{\hspace{2cm}}$$

$$96 = \underline{\hspace{3cm}}$$

$$48 = \underline{\hspace{3cm}}$$

Solve in your notebook:

7. Show that ...

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

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

8. Solve the equations:

$$\frac{3}{4}w = 9$$

$$\frac{3}{4}x - 2 = 8$$

$$10 - \frac{2}{5}y = 2$$

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: $w = 12$, $x = 40/3$, $y = 20$