

Solve in this handout:

1. Simplify the expressions and write your results right here:

$$x + 9 + 3x + 7 + x - 15 - 6x + 2x = \underline{\hspace{4cm}}$$

$$17x + 19 + 2x - x + 7 - 2x - 8 - 6x = \underline{\hspace{4cm}}$$

2. Remove parentheses:

a). $2(2x - 1) = \underline{\hspace{2cm}}$

b). $(x + 7) \cdot 3 = \underline{\hspace{2cm}}$

Combine the results of a). and b). to remove all parentheses in c). **Simplify** the result afterward like in the exercise #1

c).* $2(2x - 1) + (x + 7) \cdot 3 = \underline{\hspace{4cm}}$

3. Find an equivalent fraction:

$$\frac{1}{3} = \frac{\quad}{27}$$

$$\frac{1}{4} = \frac{\quad}{16}$$

$$\frac{3}{4} = \frac{\quad}{16}$$

$$\frac{1}{5} = \frac{\quad}{15}$$

4. Find ...

$$\frac{1}{5} \text{ of } 60 \text{ is } \underline{\hspace{1cm}}$$

$$\frac{1}{12} \text{ of } 60 \text{ is } \underline{\hspace{1cm}}$$

$$\frac{1}{15} \text{ of } 60 \text{ is } \underline{\hspace{1cm}}$$

5. Calculate:

$$12 + (-3) =$$

$$12 - (-3) =$$

$$-12 - (-3) =$$

$$-12 + (-3) =$$

$$4 + (-5) =$$

$$4 - (-5) =$$

$$-4 - (-5) =$$

$$-4 + (-5) =$$

Solve in your notebook:

6. Solve the equations:

$$\frac{1}{4}x = 5$$

$$\frac{1}{5}y = 3$$

$$\frac{1}{7}w = 4$$

$$3y = 1$$

7. There are 24 marbles in the box. $\frac{1}{4}$ of these marbles are yellow, 5 marbles are red and the rest of them are blue. How many blue marbles are there in the box?