

Solve in this handout:

1. Remove parentheses and simplify:

$$12 - (y + 2) = \underline{\hspace{2cm}} \qquad 12 - (y - 2) = \underline{\hspace{2cm}}$$

$$30 - 2 \cdot (2y + 1) = \underline{\hspace{4cm}}$$

$$30 - 2 \cdot (2y - 1) = \underline{\hspace{4cm}}$$

$$4x - (4y + 6x) : 2 = \underline{\hspace{4cm}}$$

$$4x - (4y - 6x) : 2 = \underline{\hspace{4cm}}$$

2. Calculate:

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

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

$$\frac{3}{4} : \left(-\frac{1}{2}\right) =$$

$$\frac{3}{4} \times \left(-\frac{1}{2}\right) =$$

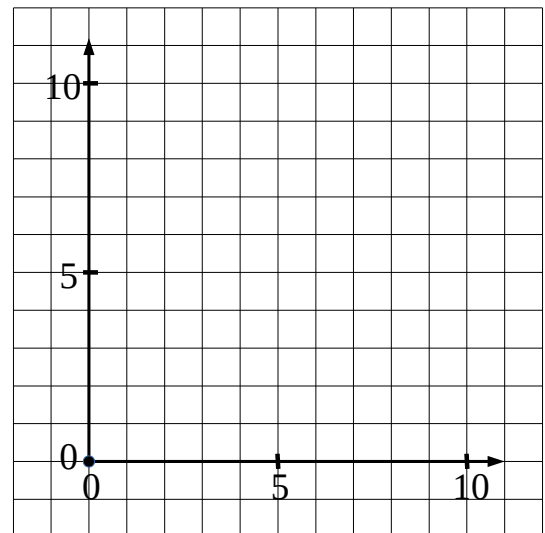
3. Try to figure out how to plot the following points:

$$A(5, 5\frac{1}{2})$$

$$B(1\frac{1}{2}, 3)$$

$$C(7\frac{1}{2}, 8\frac{1}{2})$$

$$D(0, 3\frac{1}{2})$$



4. A store is giving rewards to its customers at the register. Every 15th receives a free lollipop, every 24th receives a free chocolate bar. During that day 1000 customers visited the store. How many of them have received ...

a). ... a free lollipop?

b). ... a free chocolate bar?

c). ... both?

5. A pipe pours 30 gallons of water into a swimming pool in an hour. Another pipe pours 50 gallons into the pool in an hour. How long will it take to fill up a 1200 gallon pool using both these pipes?

Solve in your notebook:

6. Remove parentheses to solve the equations:

a). $x + 3 \times (x - 5) = 3$

b). $(x + 1) \cdot 2 - (x + 1) = 5$

7. Analyze and undo operations in the following equations:

$$9 - 2x = 4$$

$$7 - 3x = 1$$

Answers:

6a: $x = 4\frac{1}{2} = 9/2$

6b: $x = 4$