## HOMEWORK 5,

October, 252020

1. Compute:
a) $-35+(-9)=$
b) $-1 \frac{3}{8}+\left(-2 \frac{5}{6}\right)=$
c) $\left(-3 \frac{3}{7}+\left(-2 \frac{1}{14}\right)\right)+(-1.4)=$
d) $-2.3+(-3.9)=$
e) $\frac{5}{8}+\left(-\frac{7}{12}\right)=$
f) $-21-(-19)=$
g) $-2 \frac{2}{5}-\left(-3 \frac{3}{8}-2 \frac{1}{4}\right)=$
h) $\left(-4 \frac{2}{7}+3 \frac{3}{14}\right)-1 \frac{1}{2}=$
i) $-3.3+9.6=$
k) $4.7-8.1=$
1) $-\frac{8}{15}-(-0.4)=$
m) $-3 \frac{1}{2}-\left(-1 \frac{3}{4}\right)=$
2. Find the absolute value:
a) $\left|-1 \frac{2}{3}\right|=$
b) $|0.564|=$
c) $\left|3 \frac{4}{5}\right|=$
d) $\left|-3+2 \frac{1}{7}\right|=$
e) $\left|\frac{5-|-3-5|}{|-15-(-3)|}\right|=$
f) $\left|\frac{-7(a-2)}{9}\right|=$
3. Solve each equation for x :
a) $|5 x|=15$
b) $|3 x-7|=10$
c) $\left|4 x-\frac{2}{3}\right|=4 \frac{2}{3}$
d) $\frac{|2 x-5|}{12}=\frac{5}{6}$
e) $3+|4 x+15|=48$
f) $|y-8 y+6|-3=12$
4. Simplify:

$$
\frac{2 \frac{3}{4} \div 1.1+3 \frac{1}{3}}{2.5-0.4 \cdot 3 \frac{1}{3}} \div \frac{5}{7}-\frac{\left(2 \frac{1}{6}+4.5\right) \cdot 0.375}{2.75-1 \frac{1}{2}}=
$$

## Write an equation to solve each of the following word problems:

5. Mathematics textbooks are 4 times more expensive than the ELA textbooks. Julia can buy 3 mathematics textbooks and have 4 dollars left, or 10 ELA textbooks and have 10 dollars left. What is the price of a mathematics textbook? ELA textbook?
6. If Alice comes to a store with 27 dollars and buys 4 jumping ropes, she will have the same amount of money left as if she comes to a store with 42 dollars and buys 7 jumping ropes. What is the price of a jumping rope?
7. Natasha asked her students to multiply a given number by 4 and then add 15 . However, Alex multiplied the number by 15 and then added 4 - and he still got the correct answer. What was the original number?
