Problems marked with * are more difficult.

1. Evaluate the expression:

$$
\frac{1 \frac{3}{7}-\frac{1}{3}: 2.8 \cdot 3 \frac{3}{5}}{\left(2.375-\frac{1}{3}+1 \frac{1}{12}\right) \cdot 0.8}
$$

Answer is 0.4 , but you need to show your solution.
2. Find the equivalent statements among statements below:
a. $A$ is $40 \%$ of $B$.
b. $A$ is 4 times smaller than $B$.
c. $A$ is $25 \%$ of $B$.
d. $A$ is 2 times smaller than $B$.
e. $B$ is greater than $A$ by $300 \%$.
f. $B$ is 2.5 times greater than $A$.
g. $B$ is greater than $A$ by $100 \%$
h. $A$ is smaller than $B$ by $75 \%$.
i. $A$ is $50 \%$ of $B$.
j. $B$ is greater than $A$ by $150 \%$
3. $15 \%$ of the participant of math Olympiad solved 1 problem, $25 \%$ of the participant solved 2 problems, and the rest 24 students solved all three problems. Haw many students did participate in the math Olympiad?
4. Haw number $A$ will change if
a. First, number A was increase by $25 \%$, then decrease by $40 \%$ ?
b. First, number A was decrease by $60 \%$, then increase by $80 \%$ ?
5. The fourth grade is going on a school trip. Every student had to bring in $\$ 64$ for the trip to cover all costs. Unfortunately, 3 students could not participate on the trip. Therefore, every student who went on the trip had to bring in $\$ 4$ more so those who did not go could get their money back. How many students went on the trip?
6. a) To prepare 4 portion of seasoning you need $\frac{1}{3}$ teaspoon of salt, $\frac{1}{4}$ teaspoon of pepper and $\frac{1}{2}$ teaspoon of clove. How many teaspoons of salt, pepper, and cloves do you need to prepare 30 portions?
b) A pie recipe calls for 4 eggs, 1.5 cup of sugar, and $\frac{2}{3}$ cup of flour. How much sugar and flour do you need to prepare a dough using 9 eggs?
7. Solve the following equation:
a. $3 x+14=35$
b. $\frac{1}{2} x+9=17$
c. $1.5 x-3=2$
d. $5-0.2 z=1$
8. Compute:
a. $42.18 \cdot 10=$
b. $0.0762 \cdot 100=$
c. $8.3 \cdot 100=$
d. $0.0056 \cdot 1000=$
e. $72.13 \div 10=$
f. $0.04 \div 10=$
g. $0.24 \div 100=$
h. $12.18 \div 1000=$
i. $0.0001 \cdot 10000=$
9. Translate the rectangle corresponding to the blue arrow. Rotate the triangle around the point $\mathrm{L}(0,0)$ according to the blue arrow. Write the new coordinats of the shapes.


