

1. [4 points]
Three variables p , q and r are such that p varies inversely with q and varies directly with r . When $q = 6$ and $r = 10$, then $p = 5$. Calculate p , when $q = 15$ and $r = 30$.

2. [4 points]
The inheritance was divided among 4 heirs in the ratio 1:1:3:7. The person who received the most received 10 000 PLN more than all the other people combined. Find how much each person received.

3. [3 points]
Tomasz travels to New York with 5000 PLN. He exchanges his money into USD at a rate 1USD = 3.93 PLN (no commission). He then spends 1000 USD and exchanges the remaining USD into PLN at a rate 1USD = 3.95 PLN (3 % commission). Calculate how much PLN Tomasz receives.

4. [3 points]
Maria works 45 hours a week at an hourly rate of \$14. Each hour beyond 40 hours is considered overtime, for which she earns time-and-a-half (1.5 times the basic pay). Her total deductions are 35% of her gross pay. What is Maria's weekly net pay?