Percentage calculation

1. a) 6
    c) 48kg

    b) 20 Tonnen
    d) $6, 78$

2. a) 20%

    b) $3, 33\%$ (rounded)

    c) $12, 5\%$

    d) Here the base value is unknown, so just replace it with a variable (e.g. G), then $1/6$ of the base value is $G/6$. Now substitute into the known formula and G reduces away, because $\frac{\frac{G}{6}}{G} = \frac{1}{6} = 0,1\bar{6}$. Thus, the solution is 16.67%, rounded.

    e) The same procedure as in the previous task yields 50%.

3. a) 50kg
    c) 75km/h

    b) 240
    d) 75 Euro

4. Just choose any amount, subtract the discounts and compare the final price at both supermarkets. For example, if we take 100 Euro, after 10% discount we would still have 90 Euro left, and after the other 5% discount 85.50 Euro. At the other supermarket, we would pay 85 Euro after deducting 15, so less. So this supermarket is cheaper.

5. Given the percentage value (450) and the percentage (72%), we are looking for the basic value. With the help of the known formula we get 625. Thus $625 - 450 = 175$ more photos fit on the stick.