

Consumer Arithmetic

1.) Complete the following table:

Fraction	Decimal	Percentage (%)	Quantity (out of 600)
	0.6666		
			150
$\frac{1}{2}$			
		$12\frac{1}{2}$	

2.) Complete the table below showing profit or loss:

Cost Price (\$)	Selling Price (\$)	Profit		Lost	
		(\$)	(%)	(\$)	(%)
300	500				
90					30
1000			12.5		
	150				25

3.) Dad bought a recliner at a furniture store. The marked price on the recliner was \$4200. There was a discount of 20% on the recliner. How much did he actually pay for the armchair?

S.P. =



4.) Hensley paid \$12,000 for an entertainment center online overseas. This center includes a very large flat screen, curved TV, a sophisticated DVD/MP4 player, a music system and a gaming console, all fitting in a customized space saver furniture set. Ocean freight shipping cost him \$3500 to import it into the country. He have to pay a customs duty tax of 30% of the import cost.

- Calculate his tax in dollars.
- What is the total cost he has to pay to ship and receive his goods?
- How much altogether that he paid for the center?

5.) At the supermarket, the following items were purchased:

- 3 tins of condensed milk for \$10.70 each,
 - 12 lbs. sugar for \$2.85/lb,
 - 4 packs of macaroni for \$8.95/pk,
 - 15 lbs. white flour at \$3.40/lb,
 - 7 lbs. Irish potatoes at \$2.30/lb,
 - 4 lbs. cheese for \$18.35/lb. All items were subject 13.75% VAT.
- (a) What was the cost of the groceries amounted to?



(b) How much money was paid for it?

6.) Mrs. Merryluck's electricity readings recorded the following information over a period of 2 months:

Previous Reading (kWh)	Present Reading (kWh)
37915	39208

The electricity company charges 12.87c for every unit of electricity used. The standing charge is \$34.60. Furthermore, a 16% VAT is added to the bill.

Calculate her entire bill for this given period.

7.) The water company sets the rates for water consumed by householders:

for the first 35 m³, it charges \$2.56/m³,

for the next 55 m³, the charge is \$2.10/m³,

for excess of 90 m³, there is a charge of \$1.92/m³.

Additionally, a fixed charge of \$15.50 is made quarterly.

7% discount is charged on the bill if paid on or before the 5th day of the month preceding after the quarter.

Mr. Beachouse utilized 138 units of water in the 3rd quarter. What is the amount on his bill, if he had made payment:

(a) on the 4th October?

(b) on the 26th of October?



8.) A female bodybuilder decided to open up a gym. She went and purchased various necessary equipment at a store, which amounted to \$65,000. She took them on hire purchase terms, in which she has to pay 12.5% of the cash price and make equal monthly instalments of \$1600 for 4 years to secure the equipment. Calculate:

(a) her downpayment (\$) on the gym equipment.

(b) the total balance payable on the set.

(c) the total hire purchase cost of the equipment.

(d) the difference between the cost price and the hire purchase price of the equipment.



9.) A nurse is paid \$209,400 annually. Her monthly deductions amount to \$2870. Find her net monthly salary.

10.) A sales representative at a large department store is paid \$6,500 monthly. Her commission is 5.5% of the total sales she sold each month. In the month of May, she sold \$75,000 in goods.

(a) How much commission would she have received for the month of May?

(b) What is her total income for that particular month?





11.) Sam invested \$54,000 for a period of 3 years at an interest rate of 7.5% per annum.

Calculate, both his total interest and amount at the end of the period:

(a) using simple interest terms.

Total Interest: \$

Amount: \$

(b) in compound interest terms.

Total Interest: \$

Amount: \$

12.) A computer uses 8.2 watts of electricity for 610 hours. How of units of electricity in kWh it consumed?
kWh.

13.) How much units of electricity does a 6.75 kW AC unit use in 89 hours?
kWh.