

# Numeracy Problems

LET Mathematics & Statistics

1. A coffee shop generates £4,500 in revenue this month. The cost of coffee beans, milk, and rent totals £3,250. Calculate the profit.
2. A startup spends £12,000 on development but only makes £4,500 in sales. What is their profit?
3. A laptop costs £800 excluding VAT. VAT is charged at 20%. Calculate the total price including VAT.
4. A supplier offers a 15% trade discount on an order of £2,000. What is the discounted price?
5. A service bill is £144, which includes VAT at 20%. Calculate the cost *before* VAT was added.
6. Calculate the total cost for each item line, and then the Grand Total.

Item	Quantity	Unit Cost (£)	Total Cost (£)
Hard Drives	10	45.50	
Monitors	5	120.00	
Keyboards	20	15.25	
<b>GRAND TOTAL</b>			

7. A tech company is valued at £45,000,000. Write this in Standard Form.
8. The GDP of a country is £2.8 Trillion (£2,800,000,000,000). Write this in Standard Form.
9. A budget deficit is listed as  $1.2 \times 10^5$ . Write this as an ordinary number.

10. You need to buy 50 office chairs. Supplier A charges £40 per chair. Supplier B charges £50 per chair but offers a 25% discount on the total order. What is the **difference in total price** between the two suppliers?

11. Fill in the missing values from the bank statement.

Date	Description	Money In	Money Out	Balance
01 Jan	Opening Balance	—	—	£1,200
05 Jan	Office Rent		500	
10 Jan	Client Payment			£1,500
15 Jan	Staff Wages			£900
20 Jan	Utility Bill		150	

12. A bakery has fixed monthly costs of £2,000. They sell cakes for £5.00 each. It costs them £1.00 in ingredients to make each cake. How many cakes must they sell to cover their costs?
13. A salesperson earns a basic salary of £1,500 per month. They also earn 10% commission on any sales **above** £10,000. In March, they made £18,000 in sales. Calculate their total pay for the month.
14. A UK business buys a machine from the USA for \$6,000 (USD). The exchange rate is £1 = \$1.25. The shipping company charges a flat fee of £200. What is the total cost in Pounds Sterling (£)?
15. An employee's gross monthly pay is £3,250. Income Tax is calculated as 20% of their earnings **after** a tax-free allowance of £12,570 per year is deducted. Calculate their net monthly pay (after income tax is deducted) to the nearest whole number.