

2.2 Calculate earnings, discounts and fair price comparisons

Name: _____ Class: _____ Date: _____

Total: 24 marks

KEY WORDS gross pay 税前工资 • net pay 税后工资 • commission 佣金

Objective

Calculate earnings, discounts and fair price comparisons. Original GAC004-aligned practice, not an official assessment. Show the method as well as the result. All applied scenarios are invented classroom problems.

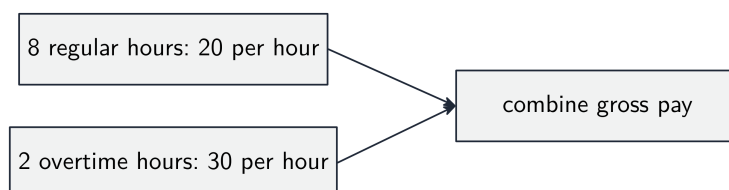
1 Key knowledge and worked examples

■ **Key knowledge:** follow the stated rules rather than assuming real tax or payment conditions

Gross pay 税前工资 is pay before deductions; **net pay** 税后工资 is pay after the specified deductions. **Commission** 佣金 is a stated percentage or amount linked to sales. Define whether it is based on all sales or only sales above a threshold.

Use total cost divided by quantity for unit-price comparisons. Apply sequential percentage changes with sequential multipliers. A discount followed by a separately added fee differs from discounting the fee too. Every rate, deduction and fee on this sheet is an invented teaching rule, not an actual tax schedule or financial recommendation.

■ **Worked example:** calculate regular and overtime hours separately



Known: 8 hours at 20 units per hour and 2 overtime hours at 1.5 times that rate. Separate the two categories before adding pay.

$$G = h_r p + h_o k p$$

$$G = 8(20) + 2(1.5)(20) = 220 \text{ units}$$

If the invented fixed deduction is 15 units, take it from gross pay once.

$$N = G - D = 220 - 15 = 205 \text{ units}$$

2 Practice

2.1 A worker earns 18 units per hour for 7 hours. Find gross pay. [2]

2.2 A pack of 12 notebooks costs 30 units. A pack of 20 costs 46 units. Compare cost per notebook. [2]

2.3 A 200-unit item receives a 15% discount. A delivery fee of 6 units is then added. Find the delivered total and the overall saving compared with 200 units, as a percentage of 200. [3]

2.4 An invented pay rule deducts 10% of gross pay plus a fixed 8 units. If gross pay is 360 units, find the total deduction and net pay. [3]

3 Exam-style questions

3.1 A worker completes 35 regular hours at 16 units per hour and 5 overtime hours at 1.5 times the regular rate. Commission is 3% of all sales of 1200 units. A fixed deduction of 22 units applies once. Find regular pay, overtime pay, commission, gross pay and net pay. [6]
