



Primary 5
Model / Branching
Lesson 3:
Remainder Scenario (III)

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LESSON 3: Equivalent Quantity Replacement**GUIDED EXAMPLE 1**

Andy spent 25% of his money on some pencil cases
and $\frac{8}{9}$ of his remaining money on 4 books.

Given that each book costs 6 times as much as a pencil case,
find the number of pencil cases he bought.

GUIDED EXAMPLE 2

Lawrence had some money.

He spent $\frac{3}{5}$ of it on 4 similar highlighters.

With the rest of the money, he bought another 2 such highlighters and 10 rulers.

What fraction of his money was spent on buying 10 rulers?

Give your answer in simplest form.

GUIDED EXAMPLE 3

Queenie spent $\frac{7}{10}$ of her money on 8 pens, 7 files and 6 bags.

She found that she could buy 4 similar pens and 3 similar bags with the rest of her money.

How many files could she buy with $\frac{2}{5}$ of her money?

GUIDED EXAMPLE 4

Rachel bought 3 identical files with $\frac{4}{7}$ of the money she had.

She could buy exactly 1 file and 10 identical pens with the remaining amount of money.

How many pens could she have bought with all the money she had at first?

(Woodlands Pri/P6 SA1/Q13)

GUIDED EXAMPLE 5

Victor used $\frac{2}{5}$ of his money to buy some pencils

and $\frac{4}{9}$ of the remainder to buy 12 notebooks.

Each notebook cost twice as much as each pencil.

How many pencils did he buy with the rest of his money?

BUILD YOUR UNDERSTANDING

1. Cathy spent $\frac{1}{5}$ of her money on pens and $\frac{5}{8}$ of her remaining money on 2 books. Each book costs 15 times as much as a pen. How many pens did she buy?

2. A mechanical pencil costs 5 times as much as a ball point pen.
Jason spent $\frac{5}{9}$ of his money on mechanical pencils
and $\frac{5}{8}$ of the remainder on 10 ball point pens.
How many mechanical pencils did Jason buy?

3. Mrs Goh spent $\frac{3}{5}$ of her money on 2 identical televisions and 4 identical fans. She then spent $\frac{1}{3}$ of her remaining money on a washing machine. The washing machine costs \$520.
- a) What is the total cost of the 2 television and 4 fans?
- b) If each television cost \$933 more than each fan, what is the cost of each fan?

(Nan Hua P5 SA1 Q15)

4. Susan spent $\frac{4}{7}$ of her money on 6 pens and 10 exercise books.
She could buy another 15 exercise books with the rest of her money.
- a) If Susan spends all her money on pens only,
how many pens can she buy?
- b) If each pen cost \$1.50, how much money does Susan have?

5. Michael spent 37.5% of his money on some calculators, and 25% of the remaining money on 25 bags. Each calculator costs twice as much as a bag. How many calculators did he buy?

6. Ali spent 60% of his money on 22 books.
If he topped up another \$8 with the remaining money,
he would be able to buy 16 such books
- a) What is the price of 1 book?
- b) How much money did Ali had at first?