



# **Primary 5**

## **Model Approach**

### **Lesson 7:**

## **Conventional Model**

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**LESSON 7: Conventional Models****GUIDED EXAMPLE 1**

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A box contains white and purple marbles.

$\frac{4}{11}$  of the marbles are white.

There are 133 purple marbles in the box.

How many more purple marbles are there than white marbles?

**GUIDED EXAMPLE 2**

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There were some marbles in a box.

Abel took  $\frac{2}{5}$  of the marbles,

Benny took  $\frac{1}{4}$  of the marbles and Charlie took the rest.

- a) What fraction of the marbles did Charlie take?
- b) Given that Charlie took 42 more marbles than Benny, how many marbles did Abel take?

**GUIDED EXAMPLE 3**

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The mass of a pail is 4.3 kg when it is completely filled with sand.

The mass becomes 2.5 kg when  $\frac{3}{4}$  of the sand in the pail is removed.

What is the mass of the pail when it is empty?

**GUIDED EXAMPLE 4**

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Some pupils were playing at different areas of the school.

25% of them were playing at the basketball court.

12.5% of them were playing in the school field.

The remaining 60 pupils were playing in the indoor hall.

- a) How many pupils were there altogether?
- b) If there were 16 more girls than boys, how many boys were there?

**GUIDED EXAMPLE 5**

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Andy wanted to buy a new television.

He only had  $\frac{1}{3}$  of the amount needed to buy this television.

After he saved another \$300,

he still needed another  $\frac{4}{15}$  of the total cost.

What was the cost of the television?

**GUIDED EXAMPLE 6**

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Last year, 81 pupils participated in a Science quiz where there were gold, silver or bronze awards to be won.

$\frac{2}{3}$  of the pupils won either a gold or a silver award.

12 of them won bronze awards.

How many pupils did not win any of the awards?

(Henry Park P5 SA2 Q5)



**BUILD YOUR UNDERSTANDING**

1. Pauline bought a box of 280 black and red beads.  
 $\frac{2}{7}$  of the beads were black.  
How many red beads were there in the box?

2. Sue went shopping with a sum of money.  
She spent  $\frac{1}{3}$  of her money on a blouse and  $\frac{2}{5}$  of her money on a skirt.  
After that, she bought 2 T-Shirts that cost \$24 each and had \$58 left.  
How much did the blouse cost?

(Maha Bodhi SA2 Paper 2 Q7)

3. 80% of the pupils in ABC school travel by bus.  
51 of the pupils travel by car.  
The remaining 5% of the pupils walk to school.  
How many pupils walk to school?

4. Mr Lim gave  $\frac{5}{8}$  of his salary to his wife.  
He gave  $\frac{1}{5}$  of his salary to his four children and spent the rest of the money.  
He spent \$420. Given that each of his four children received the same amount,  
how much did each child receive?

5. Gina spent 10% of her salary on a kettle.  
She spent another \$322 on a toaster and had \$560 left.  
How much money did Gina have at first?

6. Jamie spent  $\frac{1}{10}$  of her salary on transport and  $\frac{1}{5}$  of it on food.  
She also gave  $\frac{1}{2}$  of her salary to her parents.  
She saved the remaining \$480 of her salary.
- a) What fraction of her salary did she save?
- b) How much money did she give her parents?
- c) How much did she spend on food and transport?

(Nan Hua P5 CA1 2016 Q15)

7. Tze Kai had some money. He spent \$24 on files,  
 $\frac{1}{3}$  of the money on books and  $\frac{1}{9}$  of the money on stationeries.  
He saved the remaining \$16.
- a) How much money did he have at first?
- b) What fraction of his money did he save?

(Nanyang P5 CA1 Q16)