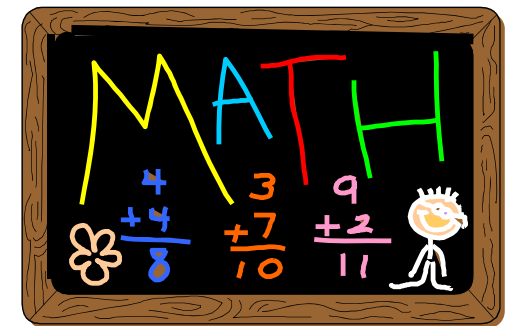


Briefing on P5 Mathematics

12 Jan 2018



Examination Format (Standard Mathematics)

Paper	Item Type	Number of questions	Number of marks per question	Total marks	Duration
1	MCQ	10	1	10	1 h
		5	2	10	
	SAQ	5	1	5	
		10	2	20	
2 (with calculator)	SAQ	5	2	10	1 h 30 min
	Structured/ LAQ	12	3, 4 or 5	45	
Total		47	-	100	2 h 30 min

How marks are allocated (Standard Mathematics)

Item Type	Description
MCQ (20 marks)	10 1–m questions likely to be straightforward questions that assess the basic concepts and skills in the Primary Mathematics Syllabus
Short answer (35 marks)	5 1-m questions: Marks are given for answers only. No method mark. 2-m questions: Working has to be shown. A mark may be given for correct method.
Structured/ Long answer (45 marks)	Solution, i.e. equations, must be <u>clearly</u> shown for marks to be awarded. No mark is awarded if a wrong method is used to get to a solution.

Overview of content/ skills taught in P5

Whole Numbers

Fractions

Area of Triangles (including composite figures) **NEW!**

Volume **NEW!**

Ratio **NEW!**

Percentage **NEW!**

Decimals

Rate **NEW!**

Average **NEW!**

Angles

Properties of Triangles, Parallelogram, Trapezium, Rhombus **NEW!**

How is P5 different from P4?

calculator



time

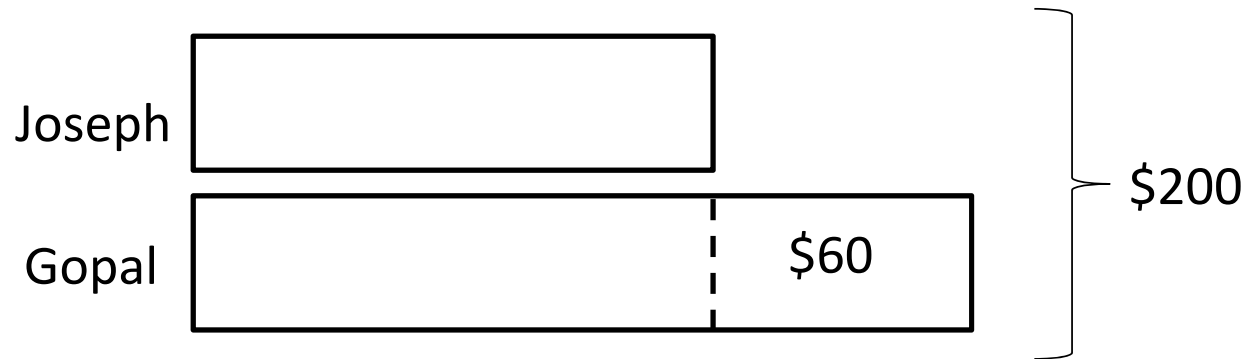


demand

Examples

A common P4 word problem (with model)

Gopal and Joseph have \$200 altogether. Gopal has \$60 more than Joseph. How much money does Gopal have?



P4 presentation of a solution:

$$200 - 60 = 140$$

$$140 \div 2 = 70$$

$$70 + 60 = 130$$

P5 presentation:

$$2 \text{ units} = 200 - 60$$

$$= 140$$

$$1 \text{ unit} = 140 \div 2$$

$$= 70$$

$$70 + 60 = 130$$

Examples

A P5 word problem (with model)

Ravi is 11 years old. His sister, Devi, is 5 years older than Ravi. In how many years' time will their total age be 65 years?

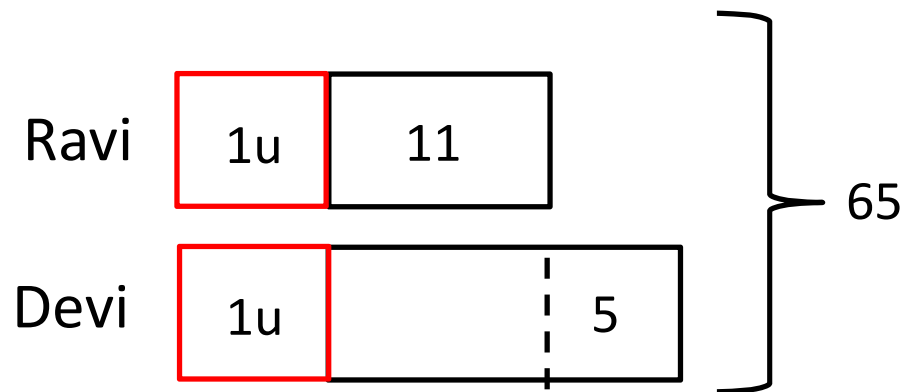
Analysing the problem sentence by sentence...



Examples

A P5 word problem (with model)

Ravi is 11 years old. His sister, Devi, is 5 years older than Ravi. In how many years' time will their total age be 65 years?



Solution:

$$\begin{aligned} 2 \text{ units} &= 65 - 11 - 16 \\ &= 48 \end{aligned}$$

$$\begin{aligned} 1 \text{ unit} &= 48 \div 2 \\ &= 24 \end{aligned}$$

Their total age will be 65 years in 24 years' time.

Examples

Example 2

The average height of some children is 160 cm. There is an equal number of boys and girls. The average height of the boys is 170 cm.

Each statement is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
All the boys are taller than all the girls.			
The average height of the girls is shorter than 160 cm.			

How the school is helping your child

- **Key Strategies & Pedagogies**

- Using RCUB to decode word problems
- Building factual fluency
- Activity-based lessons to build concept understanding
- Encouraging active participation in class
- Exposure to different types of questions
- Enrichment Programmes
- Assessment Book (Selected Class)

- **Resources**

- Mconline
- Koobits

Tips to do well

1. Manage the time well so there is time for checking.
2. Learn the basic concepts and skills well, e.g. timestable, number bonds, algorithms, contexts for 4 operations so there is more time for other important stuff.

Tips to do well

3. Be able to break down an unfamiliar problem. Analyse the problem sentence by sentence using RCUB.

Polya's Problem Solving Process

- Understanding the problem (RCUB is used here)
- Devising a plan
- Carrying out the plan
- Looking back

(Polya, 1945)

RCUB in decoding word problems

T read the problem

E circle the numbers

W underline the key words

D ox the question

There are 100 children in Primary 3.
59 of them are boys. How many girls are there?

Tips to do well

4. Practise! Practise! Practise!

- Know thy **problems**
- Know thy **mistakes**
- Know thy **methods**

Tips to do well

4. Practise! Practise! Practise!

Variations of a question

Gopal and Joseph have \$200 altogether. Gopal has \$60 more than Joseph. How much money does Gopal have?

There are 200 children at a school camp. There are 60 fewer boys than girls at the camp. How many boys were there at the camp?

You can play a part too

- Ensure your child develops good work habits this year, e.g.
 - Use **RCUB** to understand word problems
 - Do school work **with understanding.**
 - Try **every** question in school work
 - Use the calculator **only** for questions with calculator icon (in Workbooks) or for Paper 2 questions.

Thank You

