

Pioneer Primary School

Mathematics

Heuristic Approach to Problem-Solving

2 February 2018

**PIONEER
PRIMARY SCHOOL**

Areas of Weakness

1) Factual Fluency

- Not counting with fingers

2) P3 to P4 Concepts

- Length, mass, volume
- Area and perimeter
- Geometry (eg angles, parallel lines)

3) Application of strategies

- Reading and understanding of questions
- Model drawing

What can I do for my child?

- 1) Improve factual fluency
- 2) Revision of P3 to P4 topics
 - *45% of the exam is to be completed without calculator. Factual fluency is important.*
- 3) Life skill : ***Perseverance***
 - *“Try your best. Don’t leave blanks.”*
 - *“It’s ok if you make mistakes.”*
 - *“Learn from your mistakes.”*

What can I do for my child?

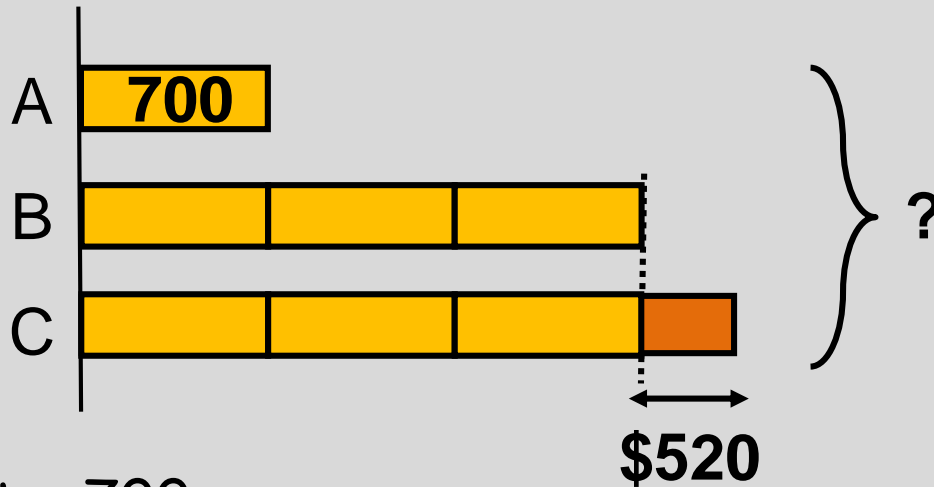
4) Questioning techniques

- *Let's read again. What does this mean?*
- *What method can you use? Draw model?*
- *Can you solve part of it?*
Which part can you solve first?
- *Is your answer reasonable?*
How do you know your answer is correct?

Model Drawing

Example 1

During a fund raising event, Class 5A collected \$700.
Class 5B collected 3 times as much as Class 5A
and Class 5C collected \$520 more than Class 5B.
How much fund was collected altogether during the event?



$$1 \text{ unit} = 700$$

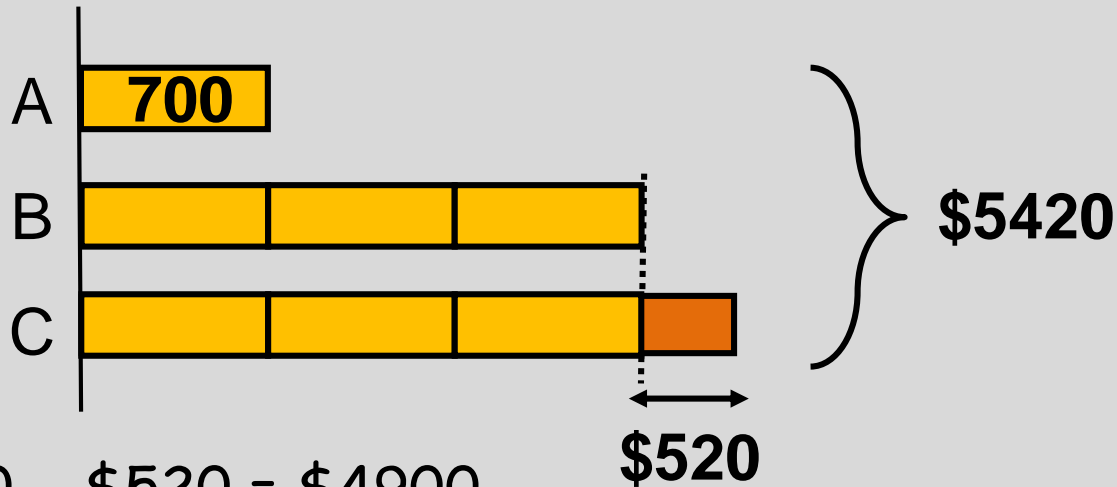
$$7 \text{ units} = 700 \times 7 = 4900$$

$$4900 + 520 = 5420$$

\$5420 was collected altogether.

Example 2

Three classes collected a total of \$5420.
Class 5B collected 3 times as much as Class 5A
and Class 5C collected \$520 more than Class 5B.
How much fund was collected by Class 5A?



$$\$5420 - \$520 = \$4900$$

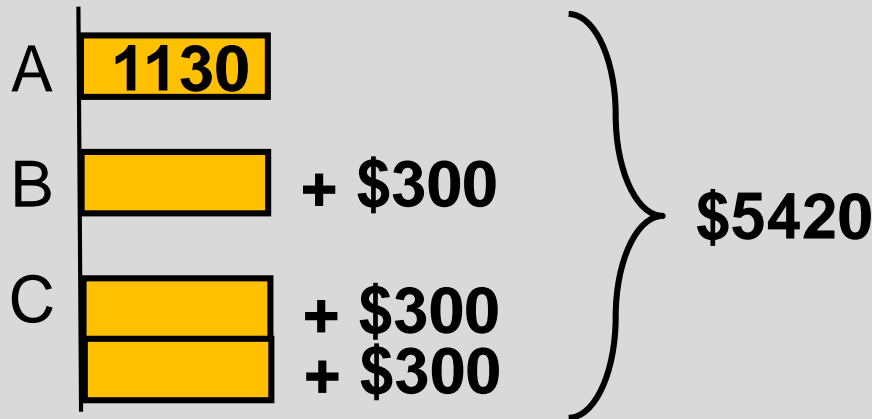
$$7 \text{ units} = \$4900$$

$$1 \text{ unit} = \$4900 \div 7 = \$700$$

5A collected \$700.

Example 3

Three classes collected a total of \$5420.
Class 5B collected \$300 more than Class 5A
and Class 5C collected twice as much as Class 5B.
How much fund was collected by Class 5A?



$$\$5420 - (\$300 \times 3) = \$4520$$

$$4 \text{ units} = \$4520$$

$$1 \text{ unit} = \$4520 \div 4 = \$1130$$

5A collected \$1130.

What can I do for my child?

- 1) Improve factual fluency
- 2) Revision of P3 to P4 topics
- 3) Life skill : *Perseverance*
- 4) Questioning techniques

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Self Practice

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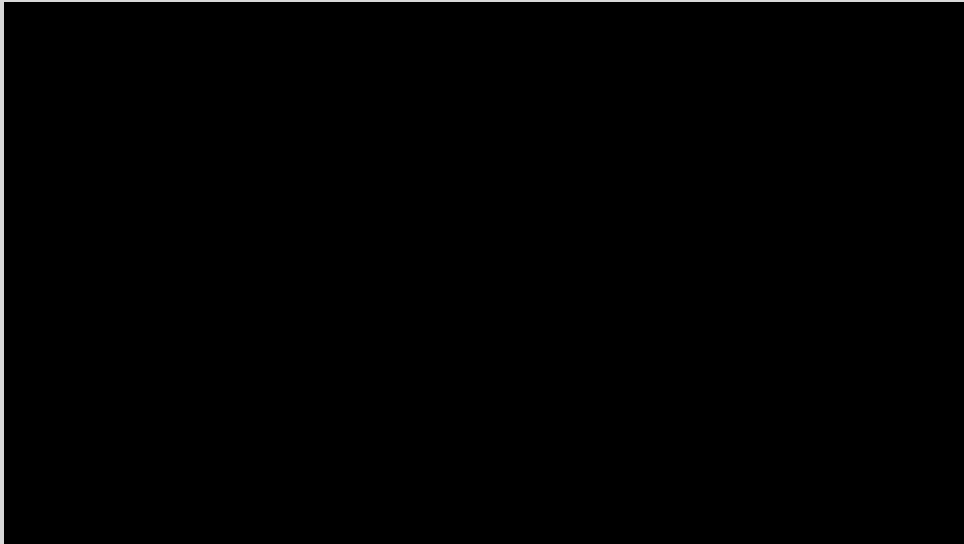


Primary 5 Whole Numbers

Mastered
Passed
Needs Improvement
Incomplete

[View Scoring Rules](#)

Skill	Description		Proficiency	Correctly Answered
1	Given total amount, repeated-quantity & a difference relationship, find the amount for one person	Lesson Practice	0%	0 out of 0
2	Given transfer amount & relationship between two persons before and after the transfer, find final amount for one person	Lesson Practice	0%	0 out of 0
3	Given the amount of spending and repeated-quantity relationship, find the final amount for a person	Lesson Practice	0%	0 out of 0
4	Find the tens/hundreds/thousands to be added to a number to obtain a given value	Lesson Practice	0%	0 out of 0
5	Find the difference between two numbers rounded off to the nearest tens/hundreds/thousands	Lesson Practice	0%	0 out of 0
6	Given the initial repeated-quantity relationship and the change in amount/quantity, find initial total amount/quantity	Lesson Practice	0%	0 out of 0



Thank You