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LENGTH

Topic : Length

Learning Area : Computation of Length

Learning Objective : Use and apply fractional computation to problems involving length.

Learning Outcomes : Compute length from a situation expressed in fraction.

Teaching Aids

Duration: 1 hour

Diagrams, number lines, paper strips, scissors, ruler, a roll of string and worksheets.

Set Induction

- 1. Teacher shows a paper strip to model a situation expressed in fraction.
- 2. Teacher distributes the paper strips to each pupil and gives clear instructions.
- 3. Pupils do hands-on activity.

Teacher's Instructions:

- First, measure and cut a paper strip with the 0 length of 30 cm.
- 0 Now, fold the paper strip into three equal parts.
- 0 Next, colour any one part of the paper strip.
- What is the fraction of the coloured part? 0
- Class, what is the length of the part that you 0

Expected Answers:

Teacher guides pupils to answer in full sentence.

- 0 The fraction of the coloured part is one third.
- The part that I have coloured is 10cm long. 0
- have coloured, in cm?



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<u>Step 1:</u> Solve problem involving computation of length.



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Teacher's Instruction	<u>:</u> :	<u>Ex</u>	pected Answers:	
		Te se	acher guides pupils to a ntences.	nswer in full
• Teacher asks pupil	ls what is the length of PR?	0	48 m.	
• What is the fractio	n of QR?	0	QR is one third of PR.	
• What is the length	of PQ in metre?	0	PQ is two third of PR	
		0	The length of PQ is 32 m.	

Step 2: Solve problem in real context involving of length.

Pupils' Activity:

1. Pupils are divided into groups.

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- 2. Teacher prepares some questions.
- 3. Each group answers a set of questions by Polya's Model.
- 3 steps Understand the problem, Devise a plan and Solve the problem.
- 4. The groups pass and rotate their findings to the next group.
- 5. The groups will check the answer by the 4th Step of Polya's Model Looking back method.
- 6. Pupils proceed with the next question.

Teacher's Instruction:

- Alright children, now get into groups.
- Here are some questions for you to answer.
- Each group will answer the question with the first 3-steps of Polya's Model.
- You can choose any method to solve the problems.
- Then, let the other group to check your answer.
- Now, let's practice with more questions.

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Example:

Question 1	Question 2
The diagram shows three places L, M and N. The distance from M to N is $\frac{1}{5}$ of the distance from L to N. L M N M N What is the distance from M to N?	$\frac{1}{7}$ of 17.5 m of cloth is used to make a curtain. Find the length of the cloth used, in cm.
Question 3 The diagram shows two ropes, J and K. The length of rope K is $\frac{1}{3}$ longer than the length of rope J. G0 cm K K Find the length of rope K, in cm.	Question 4 Azman's height is 1.74 m. Rosli's height is $\frac{5}{6}$ of Azman's height. Calculate their difference, in cm.

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Step 3: Worksheet



Consolidation

- Alright, children. 0
- Today, we have learnt how to solve problems involving computation of length. 0
- Remember; use the Four Steps Polya's Model to solve problems. 0
- You are encouraged to use as many methods as you can. For example, using a diagram, using 0 number line, paper strips, strings, mental calculations or normal operation calculations.
- o For further activities, please do the exercises in your Text Book. Have fun with Mathematics!

Further Activities

Text book

- Let's Work Together Page 152
 Let's Do It Page 153
 Let's Do It Page 156
 Let's Wrap Up Page 157 and 158

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Worksheet (Extract from Masmatics pg 34&35)

Solving daily problems



