



G3.41 | SOLVING WORD PROBLEMS INVOLVING DIVISION

Number Operations Concepts - NCERT Chapter 12: Can We Share?

Students will be able to solve simple word problems involving division

40- 50 min

PRE REQUISITES:

G3.40 Know how to write division as number statements

TLM



20 counters

MISCONCEPTIONS

Students might leave some objects undistributed while making equal groups

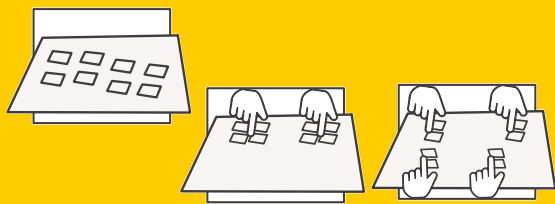


KEY VOCABULARY

None



PLAY



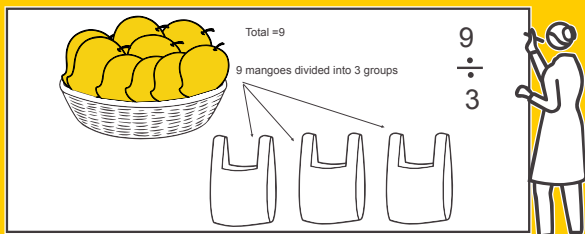
Dividing a collection between many people

- Divide students in groups of 8 & distribute 8 counters to each group. Tell the student that the counters represent sweets
- Ask the students to imagine that on their birthday they bought 8 sweets & called some friends
- Ask the students how many sweets would each friend get if the sweets were to be divided between only 2 friends
- Tell each group divide the counters equally between any two students

- Next, ask the students how many sweets would each friend get if the sweets were to be divided between only 4 friends
- Lastly, ask the students how many sweets would each friend get if the sweets were to be divided between 8 friends
- Emphasize the pattern that when the same quantity is divided between more people, each person gets lesser quantity



PROCESS



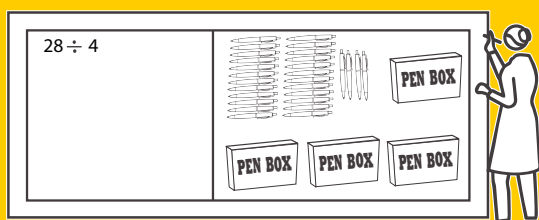
Division in problem solving

- Narrate the question & write it on the blackboard, "Gappu the fruit seller sold 9 mangoes to 3 customers"
- Each bought an equal number of mangoes. Can you tell how many mangoes did each customer buy?"
- Emphasize & underline "sold 9 mangoes to 3 customers". Explain that the question tells us to divide 9 into 3 groups
- Underline "how many mangoes did each customer get?". Total mangoes in each group need to be calculated

- Write $9 \div 3 = \underline{\quad}$. Draw 9 circles & count by threes to make 3 groups. Tell how 9 objects divided in 3 groups gives 3 in each
- Tell, "If I have 6 Rs. 20 notes & I want to distribute the money equally among 2 friends, How much money will each get?"
- Underline & emphasize "6 notes Rs. 20" & "distribute among 2 friends" & write $6 \div 2$
- Draw 6 notes of Rs 20 & make 2 groups of 6 each. Explain that each friend can get 3 notes of Rs 20

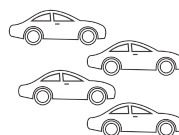


PRACTICE



Write the question on the black board & ask the students to solve

- Help the students solve question 3 from the worksheet. Ask the students to fill in the blanks by looking at the number statements
- Help the students solve question 4 from the worksheet. Narrate the question & ask the students to solve it. "16 people are equally distributed in 4 cars. How many people will be there in each car?"



- Allow the students to find out how many people should each group have by trial & error. It might take a couple of iterations for students to get the right group size

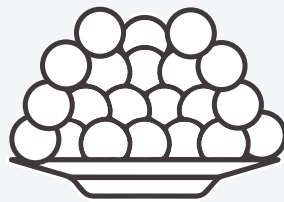
- Emphasize that all people must be assigned a car. If any person is left out, students must try making groups of different sizes



G3.41 | DIVISON WORD PROBLEMS (2 DIGIT)

WORKSHEET: NUMBER OPERATIONS CONCEPTS - NCERT CHAPTER 12: CAN WE SHARE?

- ① SOLVED EXAMPLE : Gulshan wants to distribute 21 sweets equally between 7 boxes. How many sweets will be there in each box?



$$21 \div 7 = 3$$



- ② Read the question & complete the number sentences



$$10 \div \underline{\quad} = \underline{\quad}$$

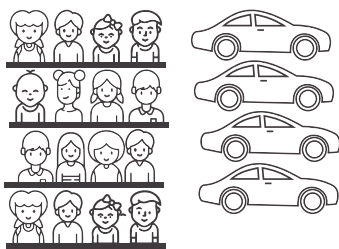


$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

- ③ Read the number statements & fill in the blanks

1.	$28 \div 4$	_____ pens are packed in _____ packets
2.	$21 \div 3$	_____ mangoes are packed in _____ basket
3.	$72 \div 8$	_____ sweets are packed in _____ plates
4.	$54 \div 9$	_____ bananas are given to _____ monkeys

- ④ Amina's friends are going for a picnic. There are 16 friends distributed equally in 4 cars. How many friends are there in each car?



- ⑤ Dhanalakshmi had 30 Kg of carrots. Three customers bought an equal amount of carrots. How much carrot did each customer buy?



- ⑥ Look at the image below & answer the questions:

6a. How many biscuits will be there in each plate if the above biscuits are kept equally in 3 plates?

6b. How can you divide 6 biscuits between 12 people?

