



Students will be able to express multiplication using repeated addition

40- 50 min

PRE REQUISITES:

G2.06 Know skip counting by 2s, 3s, 5s & 10s

TLM



30 Kidney beans
30 Chickpeas
One bowl

MISCONCEPTIONS

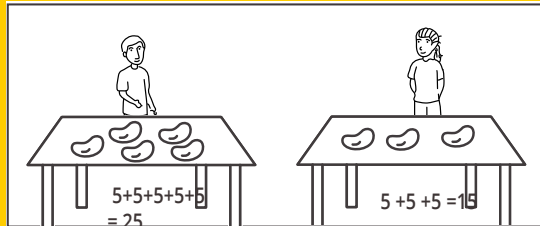
None

KEY VOCABULARY

Times



PLAY



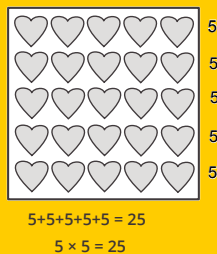
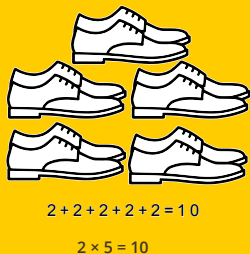
Find your total score

- Place the kidney beans & chickpeas in a bowl
- Tell the students that each Kidney bean is worth 5 points & chickpea is not worth any points
- Call 2 students to pick a fist full of grains from the bowl
- Ask them to count how many kidney beans & chickpeas they have collected & find out their total score

- Allow students to use any strategy of their choice to calculate their scores
- If they have difficulty calculating the score, ask them to first write their scores as 5+5+5+5+5... & then add
- Repeat with other students



PROCESS



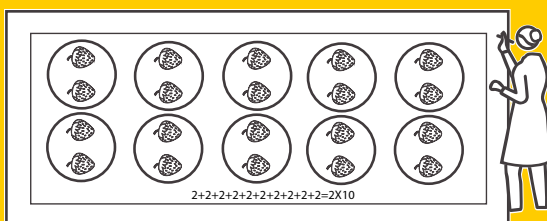
Representing repeated addition as multiplication statement

- Draw 5 pairs of shoes. Tell the students that there are 5 pairs of shoes
- Tell students that you can find the total number of shoes by adding 2 five times
- Write $2 + 2 + 2 + 2 + 2 = 10$. Point to each 2s & tell 2 is added 5 times. Tell an alternate way to represent is $5 \times 2 = 10$
- Point to the multiplication statement & emphasize that 5 times 2 is 10

- Explain that all repeated additions can be similarly represented
- Draw 4 groups of 5 hearts each. Count the hearts in each group
- Tell that total number of hearts can be calculated by adding 5 for 4 times
- Write $4 + 4 + 4 + 4 + 4 = 20$ & tell the students that it can also be written as 5×4

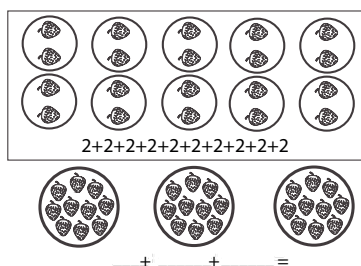


PRACTICE



Write the question on the black board & help the students solve

- Help the students solve question 2 from the worksheet. Ask the students to look at the following image & find out how many strawberries are there in all



- Encourage the students to count the strawberries by adding groups rather than counting each strawberry individually
- Help the students solve question 4 from the worksheet. Narrate the question & ask the students to write the correct number statement. "Nagma has 3 pairs of earrings. How many earrings does she have in all?"



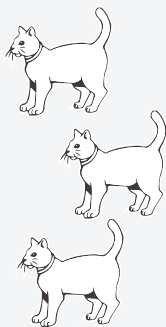
G3.26 | MULTIPLICATION AS REPEATED ADDITION

WORKSHEET: NUMBER OPERATIONS CONCEPTS - NCERT CHAPTER 9: HOW MANY TIMES? (WITH 1- AND 2-DIGIT NUMBERS)

① SOLVED EXAMPLE : How many legs are there?

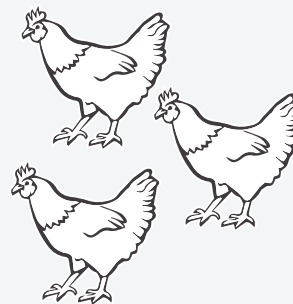
a. $4 + 4 + 4 = 12$

Or 3 times 4 = 12



b. $2 + 2 + 2 = 6$

Or 3 times ____ = 6



② Count the strawberries & fill the blanks

 $2 + 2 + 2 + 2 + 2 +$
 $2 + 2 + 2 + 2 + 2 =$
or ____ times ____ =
20

 $___ + ___ + ___ =$
or ____ times ____ = _20_

③ Which of these statements matches with the picture



7 times 5 or 5 times 5

④ Find out how many total squares are there

	$3 + 3 + 3 =$	$3 \times 3 =$	9
	$5 + 5 + 5 + 5 =$	$5 \times 4 =$	
	$4 + 4 =$	$4 \times 2 =$	
	$2 + 2 + 2 + 2 =$	$2 \times 4 =$	

⑤ Nagma has 3 pairs of earrings. How many earrings does she have in all?



Horses have 4 legs, flamingos have 2 legs, & spiders have 8 legs.
Find out how many total legs are there in this picture

