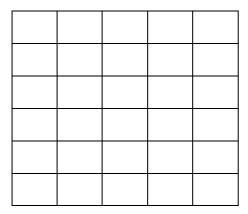
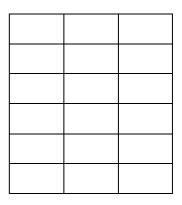
Worksheet-9	Subject: - Mathematics	Class: - VI	Teacher: - Mrs. Poonam Sunil	
Name:	Class & Sec:	Roll No.	Date: 01.05.2020	
	Good Morning	Students!		
Today I am going	to do property i.e. Distributive of n	nultiplication over a	addition. (Take Graph paper)	
Activity:				

Cut the sheet into two piece of sizes 6 cm by 5cm and 6 cm by 3 cm as shown in the figure.





Number of squares: it is 6×5 , Number of squares: it is 6×3 ?

In all, how many squares are in both the pieces?

Is it $(6 \times 5) + (6 \times 3)$ it mean that 6×8

This shows that $6 \times (5 + 3) = (6 \times 5) + (6 \times 3)$?

This is known as distrivutivity of multiplication over addition

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Example 5: The school canteen charges Rs. 20 for lunch and Rs 4 for milk for each day. How much money do you spend in 5 days on these things?

Sol: This can be done by two methods.

Method I: Find the amount for lunch for 5 days.

Find the amount for milk for 5 days

Then add i.e.

Cost of lunch = 5×20 = Rs 100

Cost of milk = 5×4 = Rs 20

Total cost = Rs (100 + 20) = Rs 120

Method II: Cost of (lunch + Milk) for one day = Rs(20 + 4)

Cost for 5 days = Rs $5 \times (20 + 4)$ = Rs. 5×24 = Rs 120

This example shows that

 $5 \times (20 + 4) = (5 \times 20) + (5 \times 4)$

This is the principal of distributivity of multiplication over addition.

Example 6: Find 12 × 35 using distributivity

Solution: $12 \times 35 = 12 \times (30 + 5)$

 $=12 \times 30 + 12 \times 5$

= 360 + 60 = 420

Example 7: Simplfy: 126 × 55 + 126 × 45

Solution : $=126 \times 55 + 126 \times 45$

 $= 126 \times (55 + 45)$

= 126 × 100

= 12600 Ans

Identify (for addition and Multiplication)

The number 'zero' has a specipal role in addition.

7 + 0 =	7
5 + 0 =	5
0 + 15 =	15
0 + =	

When you add zero to any whole number, the number will remain same. We will get the same number.

Zero is called an identity for addition of whole number or additive identity for whole number.

Zero has a special role in multiplication. Any number when multiplied by zero become zero.

For example:

$$5 \times 1 = 5$$

 $7 \times 1 = 7$
 $1 \times 12 = 12$
 $1 \times 100 = 100$
 $1 \times ... =$

1 is the identity for multiplication for whole number or multiplicative identify for whole number or multiplicative identify for whole numbers.

REMEMBER: PROPERTIES OF WHOLE NUMBERS

- 1. Closure property
- 2. Commutative of Addition and Multiplication
- 3. Associativity of Addition and Multiplication
- 4. Distributive of multiplication over Addition
- 5. Identify (for Addition and Multiplication)

Note: Arrange one Graph paper next time.

Good afternoon children! Today's class is over. Next time we will do exercise 2.2 (Stay home and Stay Safe), Good Bye!