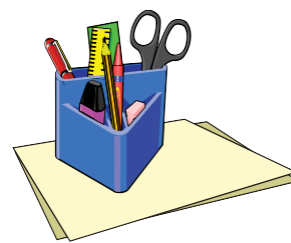


Activity 16



OBJECTIVE

To find the multiples of numbers 2, 3, 4, 5, ... ,9

MATERIAL REQUIRED

Cardboard, thick chart paper, ruler, pencil, eraser, sketch pens of different colours, cutter etc.

METHOD OF CONSTRUCTION

1. Cut a cardboard of size 12×12 units.
2. Make a square of size 10×10 units on a chart paper and divide it into unit squares. Make 6 copies of it.
3. In one copy write numbers from 1 to 100 in unit squares as shown in Fig. 1 and paste it on the cardboard.
4. Take one more copy from the remaining copies of Step 2, and make holes after leaving one square as shown in Fig. 2.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Fig. 1

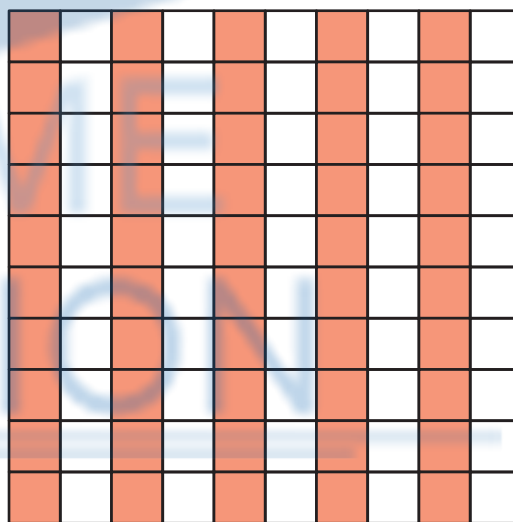


Fig. 2

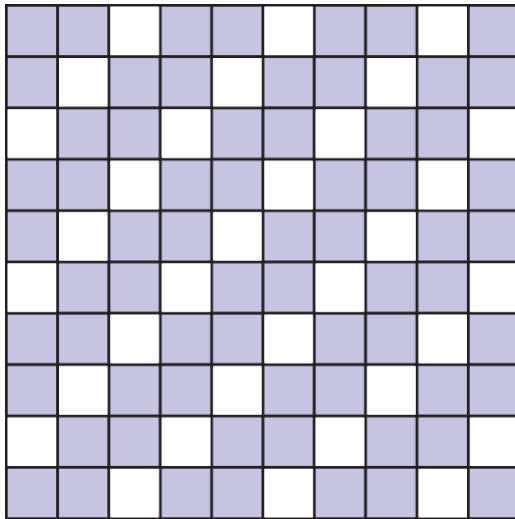


Fig. 3

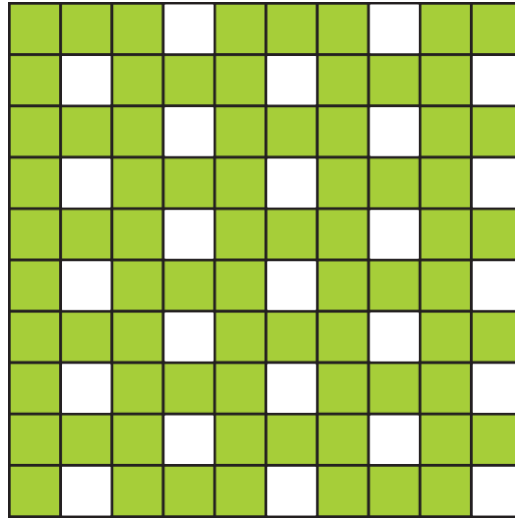


Fig. 4

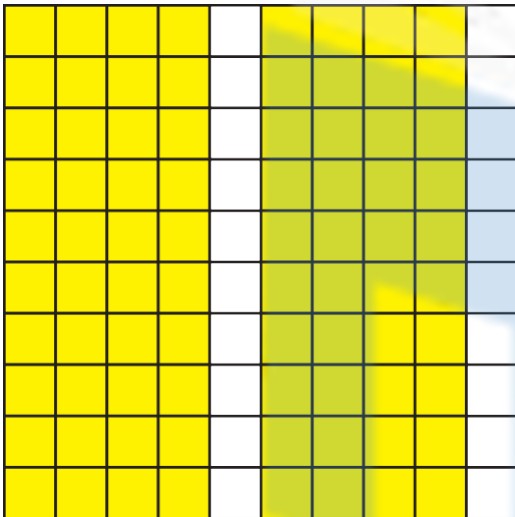


Fig. 5

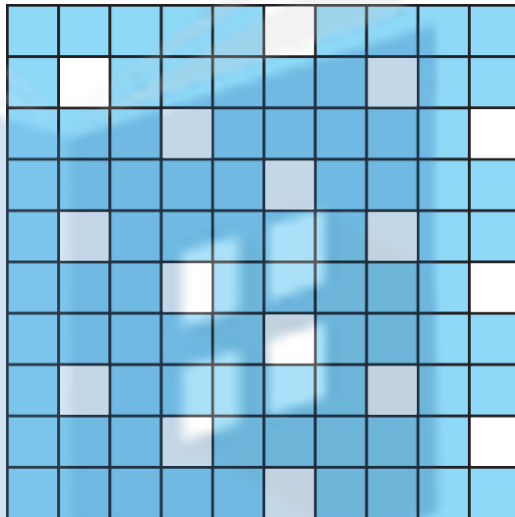


Fig. 6

5. From the other copies make holes after leaving 2 squares, 3 squares respectively as shown in Fig. 3 to Fig. 6.

DEMONSTRATION

1. (i) Place the square of Fig. 2 on the square in Fig. 1.
(ii) The holes will show multiples of 2 as 2, 4, 6, 8, 10, 12, 14,...
2. (i) Place the square of Fig. 3 on the square in Fig. 1.
(ii) The holes will show multiples of 3 as 3, 6, 9, 12, ...

3. In the same way place the squares of Fig. 4, Fig. 5, Fig. 6,on Fig. 1 to get multiples of 4, 5, 6,... respectively.

OBSERVATION

Number	2	3	4	5	6	7	8	9
Multiples	2, 4, 6, 8, 10, 12, ...							

APPLICATION

1. This activity is useful in finding common multiples of numbers. For example, to find the common multiples of 2, 3 and 4, place the squares of Fig. 2, Fig. 3 and Fig. 4. on Fig. 1. The holes will display common multiples of 2, 3 and 4 like 12, 24, 36, 48, 60, 72, 84, 96.
2. The activity can also be used to find the least common multiple of numbers. For example the smallest of the common multiples of 2, 3 and 4 above is 12. It is the Least Common Multiple of 2, 3 and 4.

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