



## Problem of the Week

### Problem B

### Making Your Mark

A group of five students decided to mark up a 100s chart in different ways.

- Zaffar shaded the numbers divisible by 2;
  - Yolanda marked the numbers divisible by 3 with a check mark in the upper right corner;
  - Xerxes circled the numbers divisible by 5;
  - William marked the numbers divisible by 7 with an X in the upper left corner; and
  - Violet underlined the prime numbers.
- a) Did at least one symbol appear on all 100 numbers on the chart?
- b) Which numbers had the most symbols?
- c) How many symbols appeared on the numbers in part b)?
- d) If the chart went beyond 100, what would be the least number that has the symbols of Zaffar, Yolanda, Xerxes, and William?
- e) Is there a number greater than 100 which would satisfy the conditions of all five students? Explain.





# 100's Chart

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

STRANDS NUMBER SENSE AND NUMERATION, PATTERNING AND ALGEBRA

