

TEST 3540 FOR 2, 5 AND 10

- 1 Look at the last digit of **3540** which is 0.
- 2 A last digit of 0 means it divides evenly by 2, by 5 and by 10.
- 3 No division needed to know the answer.

 WARM-UP

Colour squares on the hundred square to test the rules.

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

1. Shade every second square up to 48 to show the 2 rule.
2. Mark 96 and shade its last two digits area to test the 4 rule.
3. Shade 144 but only the part showing last two digits 44 for the 4 test.

 PRACTICE

- 1 In a board game a player scores **74** points. Can these points be shared evenly between **2** teams using only the divisibility rule?
- 2 A game has **68** cards. Do they form complete sets of **4** without any left over?
- 3 Players collect **162** tokens. Can they be grouped evenly into **3** piles?
- 4 A video game awards **4835** bonus points. Can they be split evenly among **5** players?
- 5 In a card game with **96** cards, can they be dealt evenly to **6** players?

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. A number ending in 0 is divisible by 10.
- b. If the last two digits form a number divisible by 4 then the whole number is.
- c. A number whose digits add to 9 is divisible by 2.
- d. The digit sum rule works for checking divisibility by 4.