

FACTORS OF 18 FOR A BOARD GAME

- 1 Find whole-number pairs that multiply to make 18.
- 2 $1 \times 18 = 18$, so 1 and 18 are factors.
- 3 $2 \times 9 = 18$, so 2 and 9 are factors.
- 4 $3 \times 6 = 18$, so 3 and 6 are factors.
- 5 The full list is 1, 2, 3, 6, 9 and 18.

WARM-UP

Use the hundred square. Shade or mark as asked.

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 multiple of 3, then of 4, then of 5 on the hundred square
2. Circle the factors of 12, 18 and 24 that appear on the square
3. Put a star on each prime number you can see up to 30, including 7

PRACTICE

- 1 In a card game the score target is 12. Which whole numbers divide evenly into 12 so a player can split the points with no remainder?
- 2 A dice game only allows a prime number of moves. Is 7 allowed as a prime, or is it composite?
- 3 Hopscotch squares are marked in multiples of 6. Write the first six landing numbers a player would hop on.
- 4 A team game needs teams that split 30 players evenly. List every factor pair of 30 so no player is left out.

? ALWAYS, SOMETIMES, NEVER

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

- a. Every whole number greater than 1 has 1 and itself as factors. ☐
- b. A prime number has exactly two factors. ☐
- c. The number 1 is a prime number. ☐
- d. Odd numbers greater than 2 are prime. ☐