

G4-M3-Lesson 24

1. Write the multiples of 3 starting from 36. Time yourself for 1 minute. See how many multiples you can write.

36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87,
90, 93, 96, 99, 102, 105, 108, 111, 114

I skip-count by threes starting with 36.

2. List the numbers that have 28 as a multiple.

1, 2, 4, 7, 14, 28

This is just like finding the factor pairs of a number. If I say "28" when I skip-count by a number, that means 28 is a multiple of that number.

3. Use mental math, division, or the associative property to solve.

a. Is 15 a multiple of 3? yes Is 3 a factor of 15? yes

$3 \times 5 = 15$, so 3 is a factor of 15.

b. Is 34 a multiple of 6? no Is 6 a factor of 34? no

c. Is 32 a multiple of 8? yes Is 32 a factor of 8? no

If a number is a multiple of another number, it means that, when I skip-count, I say that number.

8 is a factor of 32, but 32 is not a factor of 8.

4. Follow the directions below.

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

- a. Circle the multiples of 10. When a number is a multiple of 10, what do you notice about the number in the ones place?

When a number is a multiple of 10, the number in the ones place is always a zero.

- b. Draw a square around the multiples of 4. When a number is a multiple of 4, what are the possible numbers in the ones digit?

When a number is a multiple of 4, the possible number in the ones digit is 2, 4, 6, 8, or 0.

- c. Put a triangle on the multiples of 3. Choose one. What do you notice about the sum of the digits? Choose another one. What do you notice about the sum of the digits?

15 → *The sum of the digits is 6.*

75 → *The sum of the digits is 12.*

If I look at more multiples of 3, I see that the sum of their digits is 3, 6, 9, 12, 15, or 18. Each of those numbers is a multiple of 3.