Factors and Multiples

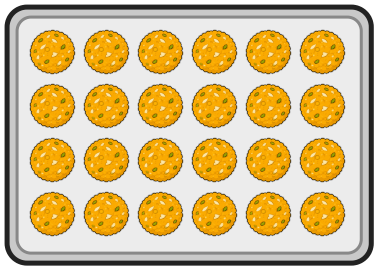
Welcome to Rinku's sweet shop! Read the box, then do Parts A, B, C and D.



Factor: a number that divides another number exactly, with nothing left over.
4 is a factor of 24, because 24 ÷ 4 = 6.

Multiple: the answer when you multiply a number by 1, 2, 3, 4 …
24 is a multiple of 4, because 4 × 6 = 24.

A. Rinku packs 24 ladoos in a tray in equal rows. Find every way.



4 rows of 6 = 24

1 × 24 = 24

☐ × ☐ = 24

☐ × ☐ = 24

☐ × ☐ = 24

So the factors of 24 are:

_____

_____

B. Multiples of 4 and 6

Colour the multiples of 4 yellow. **Draw a ring around the multiples of 6.**

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

Yellow **and** ringed numbers are the **common multiples** of 4 and 6:

☐ ☐ ☐ ☐

The **smallest** common multiple:

☐

C. Who am I? Write the number in the box.

1. I am a multiple of 7. I am between 30 and 40. ☐

2. I am a factor of 36. I am more than 10 and less than 15. ☐

3. I am the biggest number that is a factor of both 18 and 27. ☐

4. I have only two factors – 1 and myself. I am between 20 and 25. ☐

D. Think and solve

Ladoos come in boxes of **6**. Barfis come in boxes of **8**. Rinku wants the **same number** of ladoos and barfis. What is the smallest number of each he can buy?

Smallest number: _____ Boxes of ladoos: _____ Boxes of barfis: _____