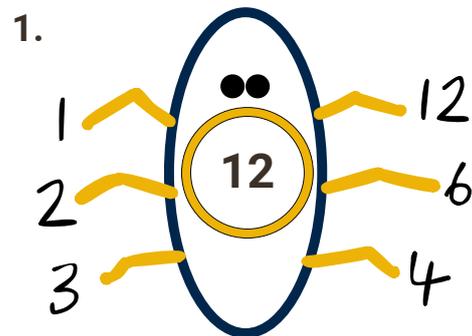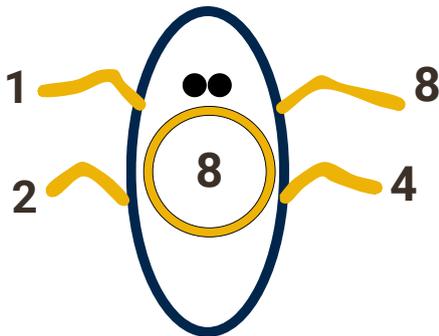Name: _____

UNDERSTANDING FACTORS:

Factors are numbers that divide into another number exactly and without leaving a remainder. All factors are integers (whole numbers).
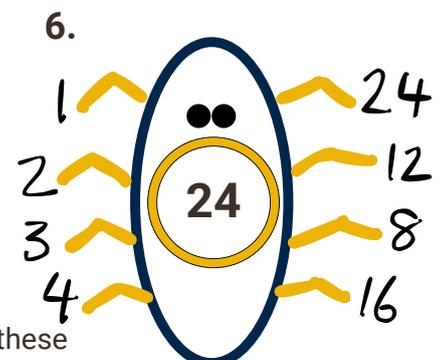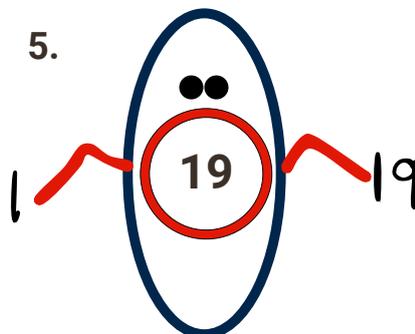
Factor Bugs

This is an **example** of a **factor bug.**

1   8
2   4
8

Each leg (or tail) is a **factor** of the **bug's number (8)**

1.

1   12
2   6
3   4
12

2.

1   15
3   5
15

3.

1   13
13

4.

1   32
2   16
4   8
32

5.

1   19
19

6.

1   24
2   12
3   8
4   16
24
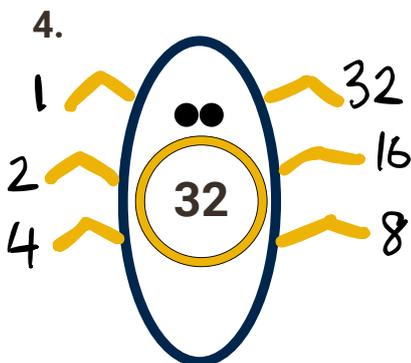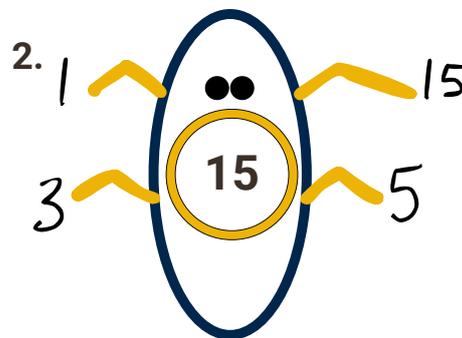
7. Look at your answers to questions 3 and 5. What do you notice about these numbers? Can you describe a special property they share?

They only have 2 factors — PRIME NUMBERS

UNDERSTANDING FACTORS:
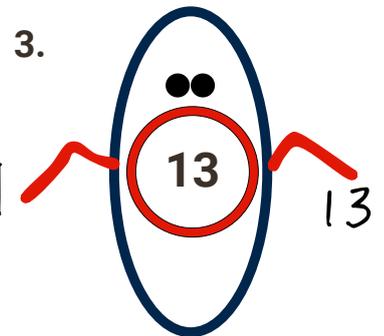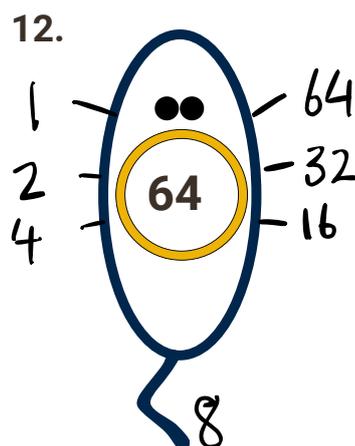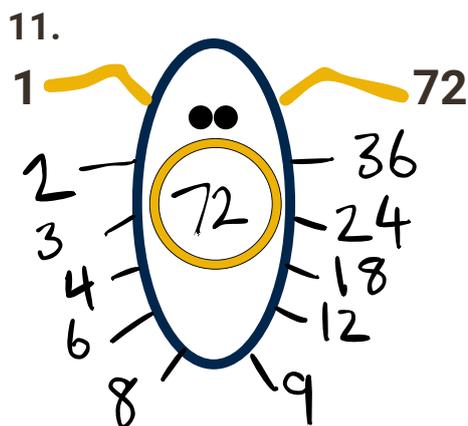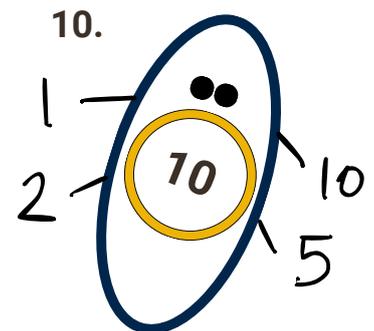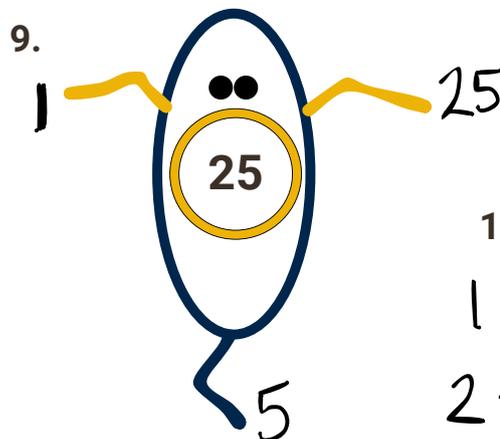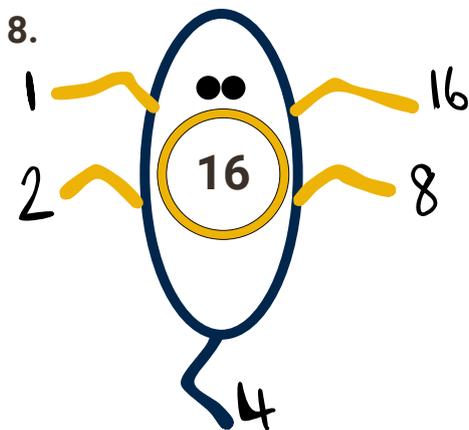
Factors are numbers that divide into another number exactly and without leaving a remainder.
All factors are integers (whole numbers).

Factor Bugs

Section 2: Some of these Factor Bugs have a **special tail**. Can you figure out why? For some of these bugs, you'll also need to draw in their legs yourself.

8.

1
2
16
16
8
4

9.

1
25
25
5

10.

1
2
10
10
5

11.

1
2
3
4
6
8
72
72
36
24
18
12
9

12.

1
2
4
64
64
32
16
8

13   What can you observe about the Factor Bugs with a tail?

They have an odd number of factors — SQUARE NUMBERS