

Can you find integer solutions to this;

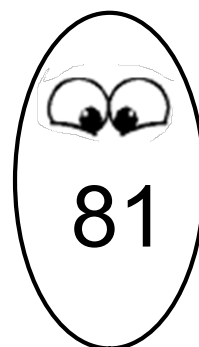
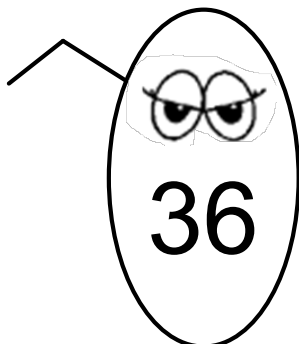
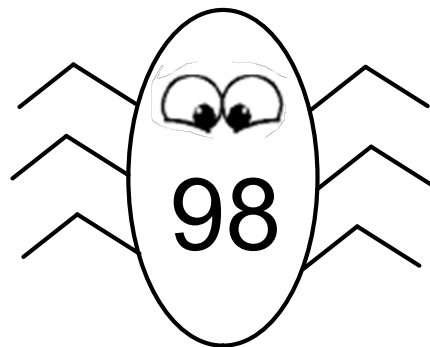
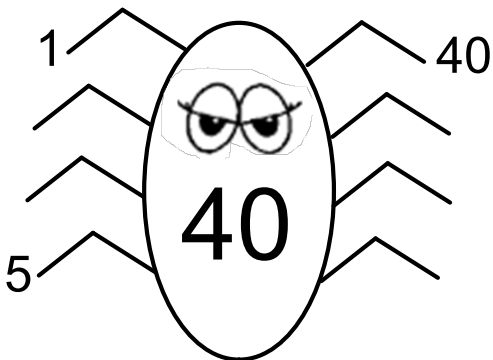
$$\sqrt{x} + \sqrt{x+y} = y$$

What is the smallest integer with exactly 30 factors?

How many integer solutions to;

$$\frac{1}{N} - \frac{1}{M} = \frac{1}{12}$$

Complete these factor bugs



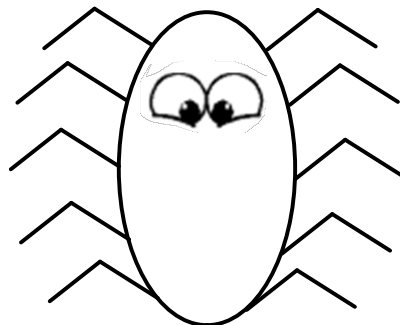
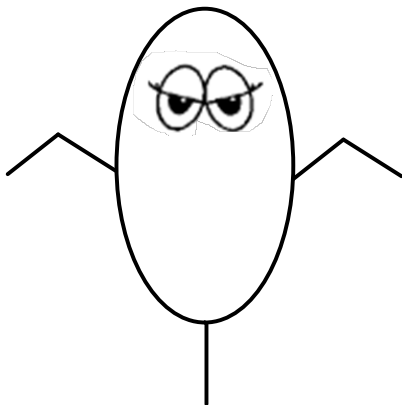
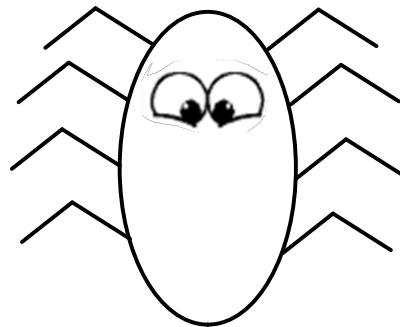
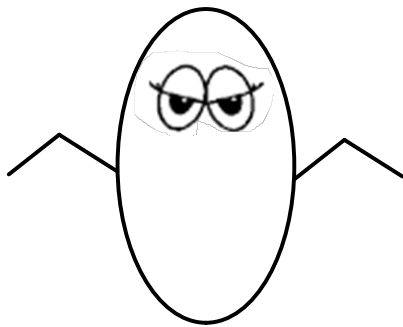
Factors

Find all the factors of;

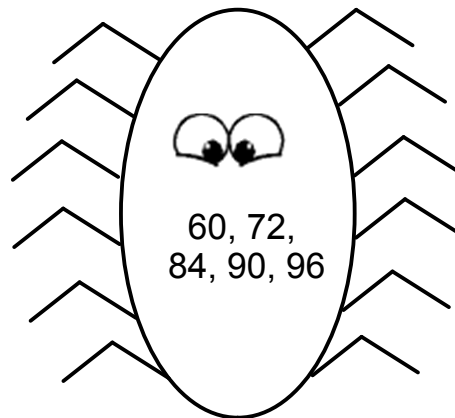
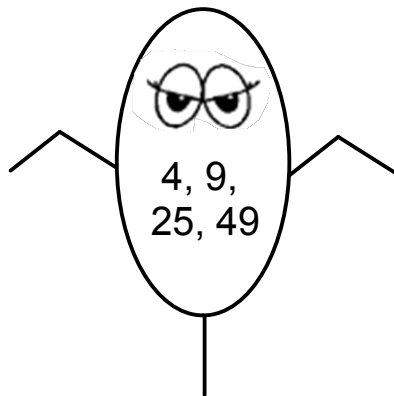
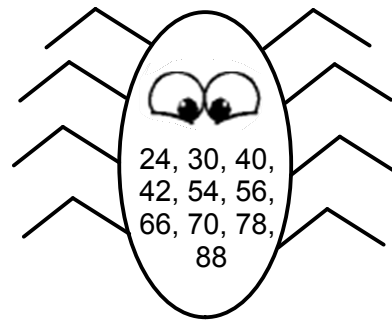
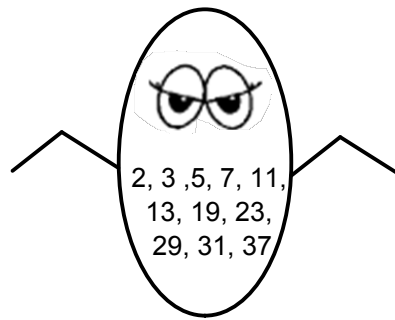
- 1) 15
- 2) 20
- 3) 11
- 4) 25
- 5) 31
- 6) 100
- 7) 7

What is special about questions 3, 5, and 7?

Find numbers with these number of factors

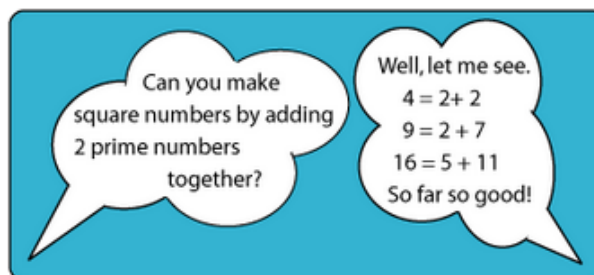


Find numbers with these number of factors



Two Primes Make One Square

Stage: 2 ★★



Try with the squares of the numbers between 4 and 20.

Did you find any square numbers which cannot be made by adding two prime numbers together?

Booklets

Who has access?

When completed - in / out of class?

Feedback - when and how?

Related to class work or not?

