

Explain

Question A: How many **triangles** can be made with **14 matchsticks**?



Question B: How many **triangles** can be made with **28 matchsticks**?



Explain why doubling the number of matchsticks **does not** double the number of triangles that can be made.

I know... so...

$$32 \div 8 = 4$$

$$38 \div 8 =$$

$$30 \div 4 = 7 \text{ r } 2$$

$$38 \div 4 =$$

$$50 \div 6 = 8 \text{ r } 2$$

$$44 \div 6 =$$

$$37 \div 3 = 12 \text{ r } 1$$

$$39 \div 3 =$$

$$24 \div 3 = 8$$

$$48 \div 6 =$$

$$14 \div 4 = 3 \text{ r } 2$$

$$54 \div 4 =$$

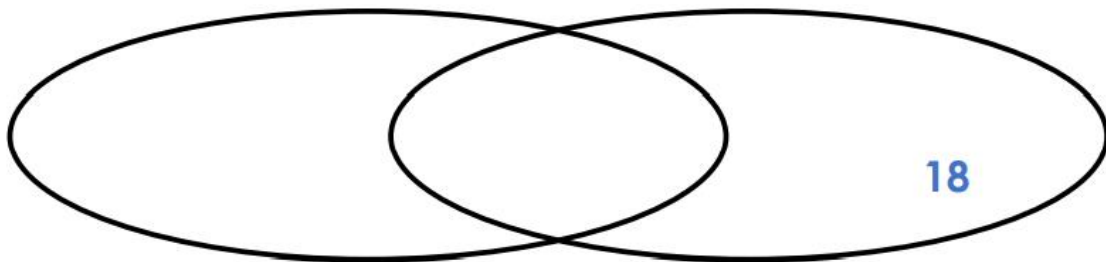
Explore

Put the numbers in the correct part of the Venn diagram:

20 36 42 46 100

Divides by **4**, no remainder

Divides by **6**, no remainder



Extend: Put another number in each section.