CTSC MATHS THINKER
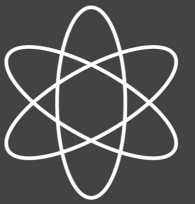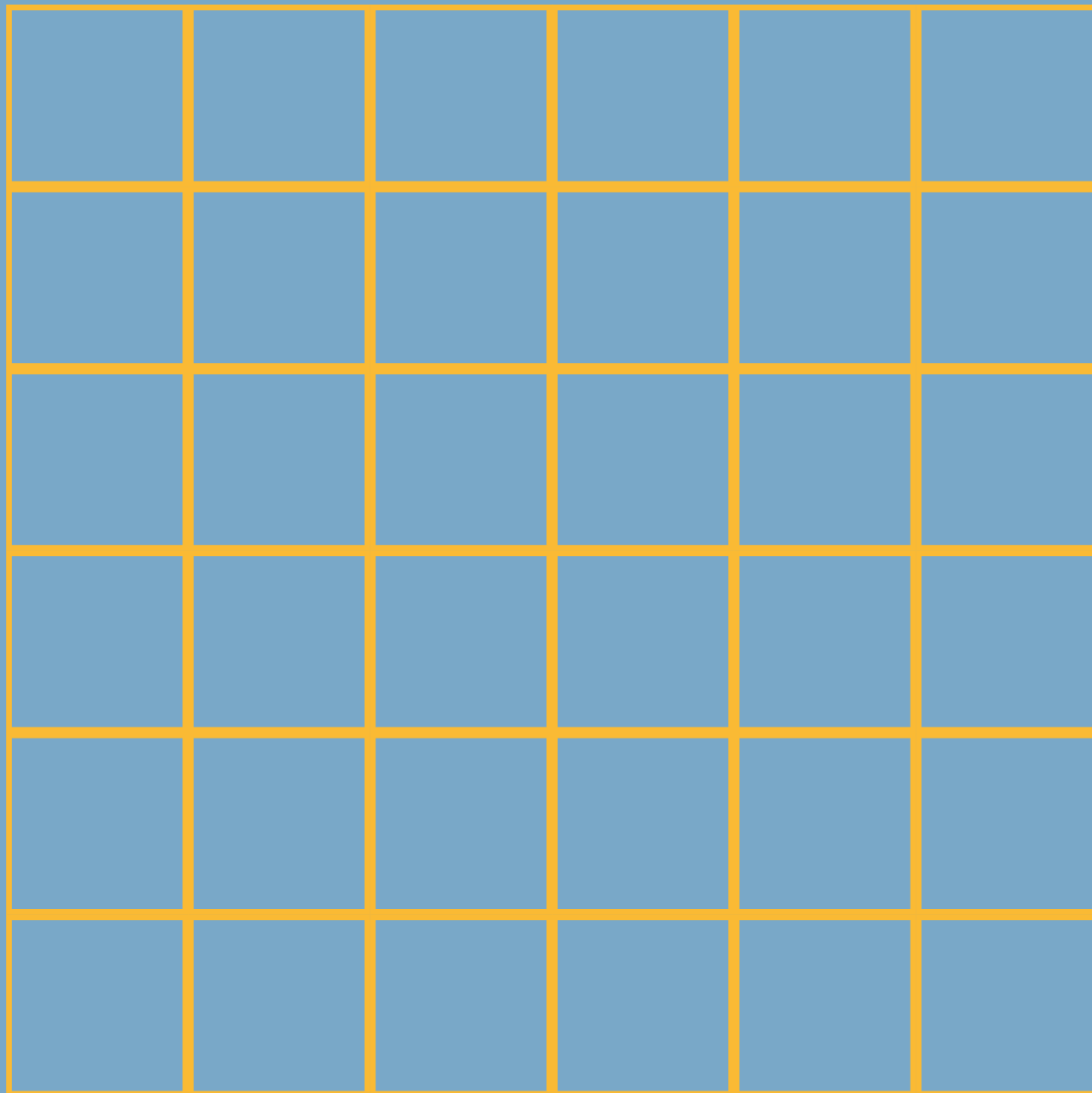
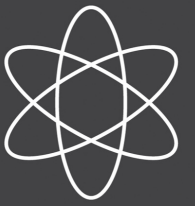## Question 1

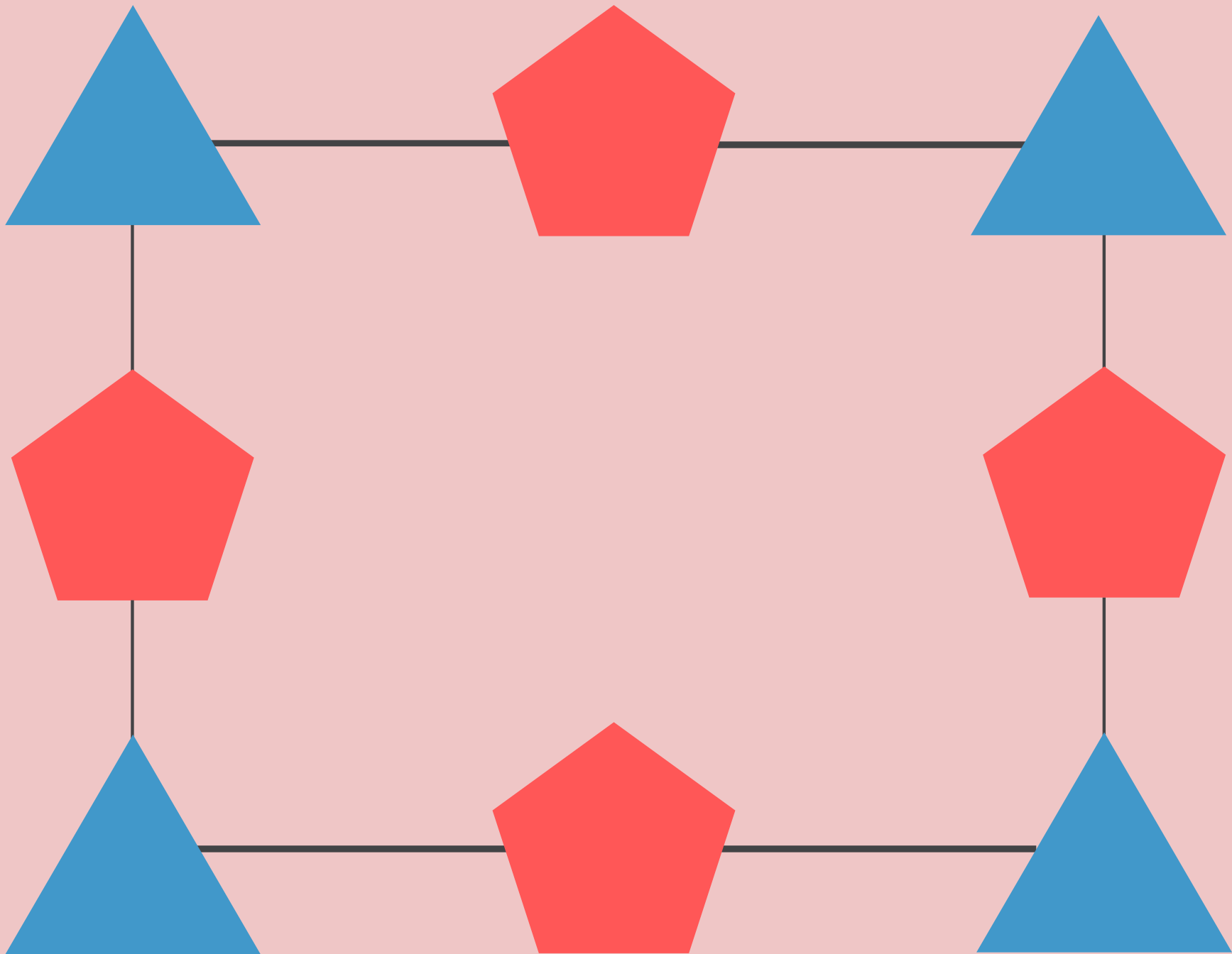Place 6 crosses in the squares on the board so that no cross is in the same line (horizontal, vertical or diagonal) of another cross.
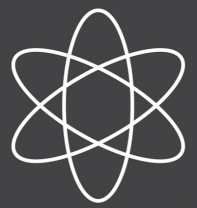
Question 2

Write the digits 1, 2, 3, 4, 5, 6, 7 and 8 so that the numbers in the pentagon are equal to the two numbers in the triangles added together. Each digit can only be used once.

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Question 3

In a magic square, each row, column and diagonal add up to the same total. Can you fill in the missing numbers in these magic squares?
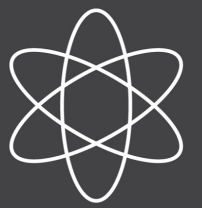
The sum is 15

	7	6
9	5	
4		8

The sum is 30

		8
2	10	
		4

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Question 4
Can you solve this?

🌹 + 🌹 + 🌹 = **60**

🌹 + 🌻 + 🌻 = **30**

🌻 − 🌼🌼 = **3**

🌹 + 🌼 + 🌻 = **?**

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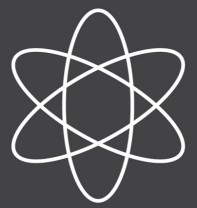
Question 5
Can you solve this?

$$\text{(flower cup)} + \text{(blue pattern cup)} = 50$$

$$\text{(blue pattern cup)} + \text{(blue pattern cup)} + \text{(blue pattern cup)} = 120$$

$$\text{(flower cup)} + \text{(lavender cup)} = 35$$

$$\text{(lavender cup)} = \text{?}$$

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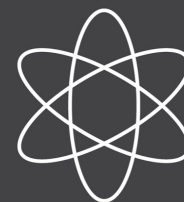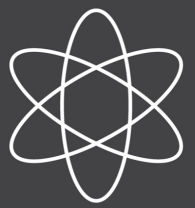
Riddles - Grade 4

Question 6

What is missing?

```
    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 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
```

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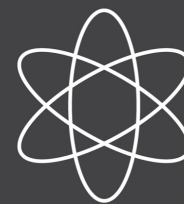**Question 7**
What is missing?

$$1 = 5$$
$$2 = 25$$
$$3 = 125$$
$$4 = 625$$
$$5 = \text{?}$$

Question 8
Can you solve this?

■ + ● = **53**   ● = **?**
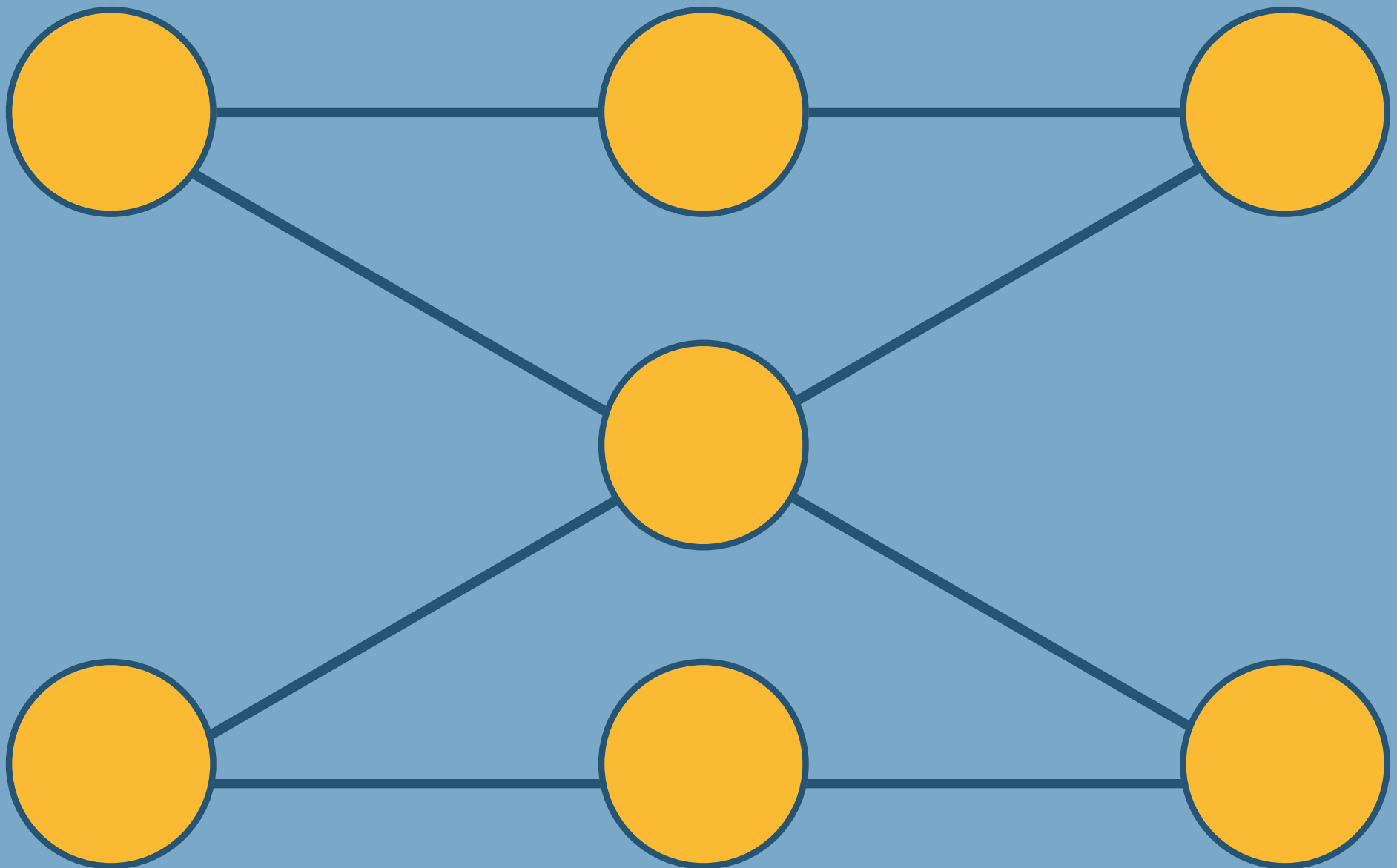
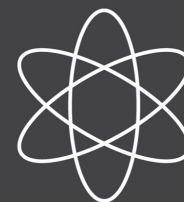▲ + ▲ = **36**   ▲ = **?**

▲ + ● = **45**   ■ = **?**
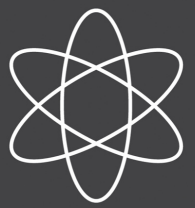
Question 9

Fill in the numbers 2 to 8 so that each line adds up to 15. Each number can only be used once.

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Question 10

For each pyramid try to figure out which number comes on top.

	48 8	
12	4	2
6	2	2	1

	64 8	
16	4	2
8	2	2	1