

---

# Cross Totals

---

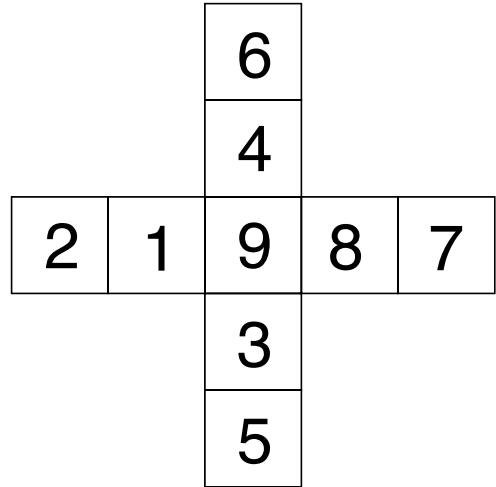
Crosses follow two rules:

- They must contain all the numbers from 1 to 9
- The horizontal and vertical totals must be equal.  
(We call this the **Cross Total**).

In the cross shown here, the Cross Total is 27 because:

adding horizontally:  $2+1+9+8+7 = 27$

adding vertically:  $6+4+9+3+5 = 27$



Which Cross Totals are possible?

Which are impossible?

Prove that you are correct.

---

---

---

---

---

---

---

---

---

---

---

---

---