



The Museum Display



COMPLETE TO COLLECT

Garnet Crystal

Level 3 · 5 Glints

The museum has **6 display cases**. Each case begins with **4 rubies**. The curator may choose some of the cases to receive **3 sapphires each**. Just before opening, the curator removes **5 jewels** to polish them. She wants to share the remaining jewels equally among **5 display trays**.



TEST EVERY CHOICE

Cases with sapphires	Jewels left after polishing	Shares equally into 5 trays?
0		
1		
2		
3		
4		
5		
6		

YOUR CHALLENGES

Which choices for the number of sapphire cases let the curator share the remaining jewels equally among 5 trays? Find every choice from 0 through 6. For each choice that works, tell how many jewels go on each tray.

SHOW YOUR ANSWER

Complete the case table here. Use scratch paper for equations, checks, and your explanation that no other choice works.

