

# Maya's Mission: Astronaut Academy Addition

Grade 1

math

astronaut-academy

Students will add numbers within 20 using counting on, making ten, and known facts.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Maya lands at Astronaut Academy! She finds 3 special objects glowing on her launch pad. Then she spots 2 more. How many special objects does Maya have now?  $3 + 2 = \underline{\quad}$

2. Maya checks her gear bag. She packed 4 unique items. Her trainer adds 3 more unique items. How many unique items are there now?  $4 + 3 = \underline{\quad}$

3. Maya floats into the training pod. She sees 5 rare finds on the left wall. She sees 6 rare finds on the right wall. How many rare finds does Maya count in all? Show your work.  $5 + 6 = \underline{\quad}$

4. Maya maps the space station. She marks 7 hidden treasures in Deck A. She marks 5 hidden treasures in Deck B. How many hidden treasures did Maya map? Show your work.  $7 + 5 = \underline{\quad}$

5. True or False? Maya collects 6 special objects from the moon rock lab. She finds 7 more special objects in the air lock. Maya has 14 special objects in all. True or False?  $\underline{\quad}$  Show your work.

6. Maya must charge the rocket! She loads 8 fuel cells into Bay 1. She loads 6 fuel cells into Bay 2. How many fuel cells did Maya load in all? Make a 10 to solve. Show every step.  $8 + 6 = \underline{\quad}$

7. Maya finds rare finds in three spots! She finds 5 in the cargo hold. She finds 6 in the cockpit. She finds 4 in the sleep pod. How many rare finds did Maya find in all? Show every step.  $5 + 6 + 4 = \underline{\quad}$

8. Mission complete! Maya opens the hidden treasure vault at the top of the academy. Inside she finds 9 golden star badges on the top shelf. She finds 9 more golden star badges on the bottom shelf. The vault door says: 'Only cadets who count 18 badges may enter the Hall of Heroes.' Did Maya collect enough badges to enter? Show your work, then write YES or NO.  $9 + 9 = \underline{\quad}$

## Answer Key: Maya's Mission: Astronaut Academy Addition

GRADE 1 | TEACHER & PARENT USE ONLY

After Q6, ask students to share how Maya used 'make a 10' to add  $8 + 6$  — connect to the mission's fuel-cell count on the board.

1. Maya lands at Astronaut Academy! She finds 3 special objects glowing on her launch pad. Then she spots 2 more. How many special objects does Maya have now?  $3 + 2 = \underline{\quad}$

**Answer:  $3 + 2 = 5$ . Maya counts on: 3 ... 4, 5. Maya has 5 special objects.**

2. Maya checks her gear bag. She packed 4 unique items. Her trainer adds 3 more unique items. How many unique items are there now?  $4 + 3 = \underline{\quad}$

**Answer:  $4 + 3 = 7$ . Maya counts on: 4 ... 5, 6, 7. There are 7 unique items.**

3. Maya floats into the training pod. She sees 5 rare finds on the left wall. She sees 6 rare finds on the right wall. How many rare finds does Maya count in all? Show your work.  $5 + 6 = \underline{\quad}$

**Answer:  $5 + 6 = 11$ . Maya starts at 5, counts on 6: 6, 7, 8, 9, 10, 11. Maya counts 11 rare finds.**

4. Maya maps the space station. She marks 7 hidden treasures in Deck A. She marks 5 hidden treasures in Deck B. How many hidden treasures did Maya map? Show your work.  $7 + 5 = \underline{\quad}$

**Answer:  $7 + 5 = 12$ . Maya makes a 10:  $7 + 3 = 10$ , then  $10 + 2 = 12$ . Maya mapped 12 hidden treasures.**

5. True or False? Maya collects 6 special objects from the moon rock lab. She finds 7 more special objects in the air lock. Maya has 14 special objects in all. True or False?  $\underline{\quad}$  Show your work.

**Answer:  $6 + 7 = 13$ , not 14. FALSE. Maya makes a 10:  $6 + 4 = 10$ , then  $10 + 3 = 13$ . Maya has 13 special objects, not 14.**

6. Maya must charge the rocket! She loads 8 fuel cells into Bay 1. She loads 6 fuel cells into Bay 2. How many fuel cells did Maya load in all? Make a 10 to solve. Show every step.  $8 + 6 = \underline{\quad}$

**Answer:  $8 + 6 = 14$ . Step 1:  $8 + 2 = 10$  (Maya takes 2 from the 6). Step 2:  $10 + 4 = 14$ . Maya loaded 14 fuel cells in all.**

7. Maya finds rare finds in three spots! She finds 5 in the cargo hold. She finds 6 in the cockpit. She finds 4 in the sleep pod. How many rare finds did Maya find in all? Show every step.  $5 + 6 + 4 = \underline{\quad}$

**Answer:  $5 + 6 + 4 = 15$ . Step 1:  $5 + 6 = 11$ . Step 2:  $11 + 4 = 15$ . Maya found 15 rare finds in all.**

8. Mission complete! Maya opens the hidden treasure vault at the top of the academy. Inside she finds 9 golden star badges on the top shelf. She finds 9 more golden star badges on the bottom shelf. The vault door says: 'Only cadets who count 18 badges may enter the Hall of Heroes.' Did Maya collect enough badges to enter? Show your work, then write YES or NO.  $9 + 9 = \underline{\quad}$

**Answer:  $9 + 9 = 18$ . Maya doubles:  $9 + 9 = 18$  (double fact). The vault requires exactly 18 badges. Maya collected 18 badges. YES — Maya enters the Hall of Heroes and earns her astronaut wings!**

