

Maya's Coding Quest: Addition Adventure

Grade 1

math

coding-kids

Students will be able to add numbers within 20 using strategies such as counting on, making ten, and using known facts.

Name: _____

Date: _____

1. Maya boots up her code screen. She finds 3 special objects in folder A. She finds 2 more in folder B. How many special objects does Maya have in all? $3 + 2 = \underline{\quad}$

2. Maya opens a locked chest. Inside she sees 4 unique items. Then she finds 3 more unique items nearby. How many unique items are there now? $4 + 3 = \underline{\quad}$

3. Maya scans two code maps. Map 1 holds 5 rare finds. Map 2 holds 6 rare finds. How many rare finds does Maya count in all? Show your work. $5 + 6 = \underline{\quad}$

4. Maya types a secret code. The code unlocks 7 hidden treasures on Level 1. It unlocks 5 hidden treasures on Level 2. How many hidden treasures did Maya unlock? $\underline{\quad} + \underline{\quad} = \underline{\quad}$

5. True or False: Maya collects 6 special objects and 8 unique items. She has 15 items in all. Circle TRUE or FALSE. Show your work.

6. Maya reaches the deep code vault. She loads 8 rare finds into her bag. Then she loads 7 more rare finds. How many rare finds did Maya load in all? Show every step.

7. Maya finds a hidden treasure chest. It has 9 special objects inside. A second chest has 9 unique items inside. Fill in the blanks: $9 + 9 = \underline{\quad}$. Maya has $\underline{\quad}$ items in all. Is this more than 15? $\underline{\quad}$

8. Maya wins! She adds up all her loot. She has 9 hidden treasures, 5 rare finds, and 4 special objects. How many items did Maya collect to beat the coding quest? Show all your steps.

Answer Key: Maya's Coding Quest: Addition Adventure

GRADE 1 | TEACHER & PARENT USE ONLY

After Q6, ask students to share how Maya reached 15 total items — some children will count on from 8, others will use fingers. Both strategies appear directly in Q6's working and spark rich classroom discussion about flexible addition strategies.

1. Maya boots up her code screen. She finds 3 special objects in folder A. She finds 2 more in folder B. How many special objects does Maya have in all? $3 + 2 = \underline{\quad}$

Answer: Q1: 3 special objects + 2 special objects = 5 special objects. Maya has 5 special objects in all.

2. Maya opens a locked chest. Inside she sees 4 unique items. Then she finds 3 more unique items nearby. How many unique items are there now? $4 + 3 = \underline{\quad}$

Answer: Q2: 4 unique items + 3 unique items = 7 unique items. There are 7 unique items in all.

3. Maya scans two code maps. Map 1 holds 5 rare finds. Map 2 holds 6 rare finds. How many rare finds does Maya count in all? Show your work. $5 + 6 = \underline{\quad}$

Answer: Q3: 5 rare finds + 6 rare finds. Count on from 5: 6, 7, 8, 9, 10, 11. $5 + 6 = 11$ rare finds in all.

4. Maya types a secret code. The code unlocks 7 hidden treasures on Level 1. It unlocks 5 hidden treasures on Level 2. How many hidden treasures did Maya unlock? $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Answer: Q4: 7 hidden treasures + 5 hidden treasures. Make ten: $7 + 3 = 10$, then $10 + 2 = 12$. $7 + 5 = 12$ hidden treasures in all.

5. True or False: Maya collects 6 special objects and 8 unique items. She has 15 items in all. Circle TRUE or FALSE. Show your work.

Answer: Q5: 6 special objects + 8 unique items. Count on from 8: 9, 10, 11, 12, 13, 14. $6 + 8 = 14$, not 15. The answer is FALSE. Maya has 14 items, not 15.

6. Maya reaches the deep code vault. She loads 8 rare finds into her bag. Then she loads 7 more rare finds. How many rare finds did Maya load in all? Show every step.

Answer: Q6: 8 rare finds + 7 rare finds. Make ten: $8 + 2 = 10$, then $10 + 5 = 15$. $8 + 7 = 15$ rare finds in all.

7. Maya finds a hidden treasure chest. It has 9 special objects inside. A second chest has 9 unique items inside. Fill in the blanks: $9 + 9 = \underline{\quad}$. Maya has $\underline{\quad}$ items in all. Is this more than 15? $\underline{\quad}$

Answer: Q7: 9 special objects + 9 unique items. Double: $9 + 9 = 18$. Maya has 18 items in all. 18 is more than 15, so YES.

8. Maya wins! She adds up all her loot. She has 9 hidden treasures, 5 rare finds, and 4 special objects. How many items did Maya collect to beat the coding quest? Show all your steps.

Answer: Q8: Step 1 — Add first two groups: 9 hidden treasures + 5 rare finds. Make ten: $9 + 1 = 10$, then $10 + 4 = 14$. So $9 + 5 = 14$. Step 2 — Add the last group: $14 + 4$ special objects. Count on: 15, 16, 17, 18. $14 + 4 = 18$. Maya collected 18 items in all and beat the coding quest!

