Maya's Big Science Count Adventure

Grade 1 | math | young-scientists

Students will be able to count forward and backward within 20 using science-themed objects and scenes.

Name: _____ Date: _____

1. Maya finds 3 special rocks. She finds 2 more rocks. How many special rocks does Maya have now? Count on from 3. Show your count: 3 ... __ , __

2. Maya lines up 7 unique items on her tray. Count them. Fill in the blank: Maya has __ unique items.

3. Maya counts 5 rare finds in a jar. She adds 4 more rare finds. How many rare finds are in the jar now? Count on from 5. 5 ... __, __, __, __

4. Maya digs up a hidden treasure. It has 6 gold pieces inside. She finds 6 more gold pieces nearby. True or false: Maya now has 13 gold pieces. Circle: TRUE or FALSE. Show your count.

5. Maya puts special objects in two boxes. Box A has 8 special objects. Box B has 5 special objects. What is the total? Count on from 8. 8 ... __, __, __, __, __

6. Maya finds 14 rare finds in the morning. She finds 3 more rare finds after lunch. How many rare finds does Maya have in all? Count on from 14 and write each number: 14 ... __, __, __

7. Maya counted 18 unique items on her shelf. She used 9 unique items in her experiment. How many unique items are left on the shelf? Start at 18 and count back 9. Write each number: 18, __, __, __, __, __, __, __, __, __

8. Maya finishes her science mission! She counted all her finds. She has 7 special objects, 6 rare finds, and 4 hidden treasure pieces. How many items did Maya collect in all? First add 7 and 6. Then add 4 more. Show every step. Write a number sentence: __ + __ + __ = __

Answer Key: Maya's Big Science Count Adventure

GRADE 1 | TEACHER & PARENT USE ONLY

After Q6, ask students to hold up fingers as Maya counts her 14 rare finds — this ties the physical counting act to the worksheet's highest warm-up number and reveals who needs support before Q7.

1. Maya finds 3 special rocks. She finds 2 more rocks. How many special rocks does Maya have now? Count on from 3. Show your count: 3 ... __ , __

Answer: Q1: Start at 3, count on 2 more: 3 → 4 → 5. Maya has 5 special rocks.

2. Maya lines up 7 unique items on her tray. Count them. Fill in the blank: Maya has __ unique items.

Answer: Q2: Count each item: 1, 2, 3, 4, 5, 6, 7. Maya has 7 unique items.

3. Maya counts 5 rare finds in a jar. She adds 4 more rare finds. How many rare finds are in the jar now? Count on from 5. 5 ... __, __, __, __

Answer: Q3: Start at 5, count on 4 more: 5 → 6 → 7 → 8 → 9. There are 9 rare finds in the jar.

4. Maya digs up a hidden treasure. It has 6 gold pieces inside. She finds 6 more gold pieces nearby. True or false: Maya now has 13 gold pieces. Circle: TRUE or FALSE. Show your count.

Answer: Q4: Start at 6, count on 6 more: 6 → 7 → 8 → 9 → 10 → 11 → 12. Maya has 12 gold pieces, not 13. The answer is FALSE. 6 + 6 = 12.

5. Maya puts special objects in two boxes. Box A has 8 special objects. Box B has 5 special objects. What is the total? Count on from 8. 8 ... __, __, __, __, __

Answer: Q5: Start at 8, count on 5 more: 8 → 9 → 10 → 11 → 12 → 13. Total = 13 special objects.

6. Maya finds 14 rare finds in the morning. She finds 3 more rare finds after lunch. How many rare finds does Maya have in all? Count on from 14 and write each number: 14 ... __, __, __

Answer: Q6: Start at 14, count on 3 more: 14 → 15 → 16 → 17. Maya has 17 rare finds in all. 14 + 3 = 17.

7. Maya counted 18 unique items on her shelf. She used 9 unique items in her experiment. How many unique items are left on the shelf? Start at 18 and count back 9. Write each number: 18, __, __, __, __, __, __, __, __, __

Answer: Q7: Start at 18, count back 9: 18 → 17 → 16 → 15 → 14 → 13 → 12 → 11 → 10 → 9. Maya has 9 unique items left. 18 − 9 = 9.

8. Maya finishes her science mission! She counted all her finds. She has 7 special objects, 6 rare finds, and 4 hidden treasure pieces. How many items did Maya collect in all? First add 7 and 6. Then add 4 more. Show every step. Write a number sentence: __ + __ + __ = __

Answer: Q8: Step 1 — Add 7 special objects and 6 rare finds: 7 → 8, 9, 10, 11, 12, 13. That is 13. Step 2 — Add 4 hidden treasure pieces to 13: 13 → 14, 15, 16, 17. Maya collected 17 items in all. 7 + 6 + 4 = 17. Maya completed her science mission with 17 amazing finds!