

Art Studio Color Case

HOST ONLY - preparation and story

Includes answers. Keep these pages with an adult.

The art studio labels are in the wrong envelopes. Compare the two print records, identify the artists and decode the shelf evidence without using color. Collect five named badge digits and use the final sheet. Every clue is on the table; ask the host for one hint at a time.

1. Print one player pack and two record sheets per team. Keep the host answers and all three hint levels with the adult.
2. Keep every clue as a full sheet at one table. Put the final sheet face down until all five results are recorded. Nothing needs cutting, folding or hiding.
3. Give each child a pencil. Choose a reader, recorder and checker, and swap jobs after each clue. Use one team for 2-4 children or two teams for 5-6.

Players: 4; teams: 1. Print one player and prop set per team. Invitations and certificates: 4 each.

Paper and pencils are enough. Keep whole sheets at one table; nothing needs cutting, folding or hiding.

Art Studio Color Case

HOST ONLY - solution guide

1. Sketch: 4

Different positions are 1, 3, 4, 6. There are 4 differences.

2. Artist: 4

Sol has Sketch; May has Print; Jo has Card. May's item gives 4.

3. Shelf: 7

C2, D3, A2, B3 reads ARTS. The conversion table gives 7.

4. Stock: 1

Known stock: $11 + 4 - 1 = 14$. Closing stock 15 minus 14 gives the missing return 1. Cancelled +7 never arrived.

5. Frame: 4

Remove 1 from 9; share 8 among 2 parcels to get 4. Check $2 \times 4 + 3 = 11$.

6. Final: 01807

Only Record A matches all five columns. Copy its printed code 01807.

Art Studio Color Case

HOST ONLY - timeline and paper check

3 minutes: Read the story, show the badge record and choose roles.

3 minutes: Solve Sketch. Offer one hint level at a time if wanted.

6 minutes: Solve Artist. Offer one hint level at a time if wanted.

5 minutes: Solve Shelf. Offer one hint level at a time if wanted.

5 minutes: Solve Stock. Offer one hint level at a time if wanted.

5 minutes: Solve Frame. Offer one hint level at a time if wanted.

5 minutes: Use the five results on the final sheet.

2 minutes: Read the ending and thank each teammate.

Paper completion: check each badge against the solution guide, then check the final code. No device is required.

The drawings have their correct labels. The studio exhibit is ready for visitors.

Thank your team for checking the evidence together. Confirmed: Record A, code 01807.

Duration and ages are estimates. Adjust pace and offer help for your group.

Art Studio Color Case

Player clue 1: Sketch | Team 1

The art studio labels are in the wrong envelopes. Compare the two print records, identify the artists and decode the shelf evidence without using color. Find five badge digits, then use the final sheet. Help each other and ask for hints.

Sketch desk: Compare the two records at matching numbered positions. Count different pairs once each; ignore box outlines.

Compare matching numbered positions.

A

















1

2

3

4

5

6

7

8

B

















1

2

3

4

5

6

7

8

Do not count title, labels, or boxes as differences.

Sketch badge: _____

Art Studio Color Case

Player clue 2: Artist | Team 1

Artist desk: Each person has ONE different item. Use all four NOT rules. Find May's item and copy its digit.

Print digit 4	Sketch digit 7	Card digit 0
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People: Sol, May, Jo

Sol does NOT have Print.

May does NOT have Sketch.

May does NOT have Card.

Jo does NOT have Sketch.

Find May's item. Each item is used once.

Artist badge: _____

Art Studio Color Case

Player clue 3: Shelf | Team 1

Shelf desk: Read the letter at each coordinate, in order. Letter = column; number = row. Convert the complete word using the printed table.

Columns: A, B, C, D. Rows: 1, 2, 3.

1	U	X	A	D	ARTS = 7 CASE = 0 VASE = 3
2	T	C	A	J	
3	E	S	L	R	

READ COORDINATES IN ORDER:

C2 > D3 > A2 > B3

Shelf badge: _____

Art Studio Color Case

Player clue 4: Stock | Team 1

Stock desk: A return entry lost its amount. Use the opening and closing stock to find the missing return. Apply DONE entries; ignore the CANCELLED plan.

Opening stock: 11. Closing stock: 15.

Received: +4 DONE
Planned: +7 CANCELLED
Issued: -1 DONE
Returned: ? DONE

Missing return = ? units. Ignore cancelled plans.

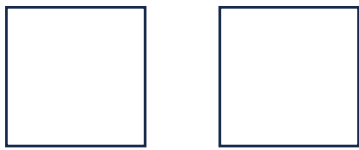
Stock badge: _____

Art Studio Color Case

Player clue 5: Frame | Team 1

Frame desk: Every parcel has the same whole-number weight. Remove loose units, find ONE parcel and check the second rule.

2 parcels + 1 loose units = 9 units



2 parcels + 3 loose units = 11 units

One parcel = ? units. Whole numbers 1-9.

All parcels have equal weight.

Frame badge: _____

Art Studio Color Case

Player clue 6: Final | Team 1

Compare each record with ALL five badge results. Find the one record matching every column. Copy its complete code, including the first zero.

C1=Sketch / C2=Artist / C3=Shelf

C4=Stock / C5=Frame

Record A: 01807

C1=4 C2=4 C3=7 C4=1 C5=4

Record B: 01817

C1=5 C2=4 C3=7 C4=1 C5=4

Record C: 01827

C1=4 C2=5 C3=7 C4=1 C5=4

Record D: 01837

C1=4 C2=4 C3=8 C4=1 C5=4

Record E: 01847

C1=4 C2=4 C3=7 C4=2 C5=4

Record F: 01857

C1=4 C2=4 C3=7 C4=1 C5=5

Final badge: _____

Need help? Ask your host for one hint at a time.

Art Studio Color Case

Hint cards - level 1 (spoilers; keep with host)

1. Sketch

Compare position 1 with position 1, not with a nearby matching shape.

2. Artist

No item can belong to two people. Cross out each forbidden pairing.

3. Shelf

Columns A-D run left to right. Rows 1-3 run top to bottom.

4. Stock

The missing amount is a return into stock. The cancelled delivery never happened.

5. Frame

Loose units are not parcels. Every parcel has equal weight.

6. Final

Keep all five named badge results beside this sheet.

Art Studio Color Case

Hint cards - level 2 (spoilers; keep with host)

1. Sketch

Position 1 is one difference: circle in A, diamond in B. Mark it once.

2. Artist

May cannot have two items, so May must have Print.

3. Shelf

The first coordinate C2 means column C, row 2. Its letter is A.

4. Stock

Start with 11. Apply +4 then -1. Ignore the cancelled +7.

5. Frame

Remove 1 loose units from 9. That leaves 8 for the equal parcels.

6. Final

Use C1=Sketch, C2=Artist, C3=Shelf, C4=Stock, C5=Frame.

Art Studio Color Case

Hint cards - level 3 (spoilers; keep with host)

1. Sketch

Compare the remaining numbered pairs one by one. Add one mark for each unequal pair, then count all your marks.

2. Artist

Cross Print off for the other two people. Apply the last NOT rule, then find May's item.

3. Shelf

Begin with A, then read D3, A2, B3 in order. Use the complete word's conversion row.

4. Stock

The known entries leave 14. How much must return to reach the closing stock of 15?

5. Frame

Share 8 equally among 2 parcels. Substitute one parcel's weight into the second rule.

6. Final

Each wrong record differs in just one column. Cross out all five wrong records, then copy the complete remaining code.

Art Studio Color Case

Team 1 badge record (no cutting needed)

Write a digit beside each badge as you solve its clue.

Sketch: _____

Artist: _____

Shelf: _____

Stock: _____

Frame: _____

Reader: reads the clue. Recorder: writes the digit. Path finder: traces routes. Swap roles every clue.

Art Studio Color Case

Team 1 paper unlock card

Our five badges are ready. We used the final sheet to find this code:

Host: compare this with your solution guide. When it matches, read the ending and celebrate.

No physical lock or prize is required. You may draw a celebration star on this card.

Art Studio Color Case

You're invited to a birthday mystery!

Join Birthday Explorer for Art Studio Color Case.

Restore the studio exhibit labels using shape and stock evidence.

Date: _____

Time: _____

Place: _____

Bring your curiosity. Paper and pencils are provided. Work together, share ideas and solve six clues.

Designed for ages 8-10. Estimated 30-45 minutes.

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Art Studio Color Case

Birthday Mystery Explorer

Presented to Birthday Explorer

Team member: _____

For completing Art Studio Color Case with curiosity,
teamwork and kindness.

The drawings have their correct labels. The studio exhibit is ready for
visitors. Thank your team for checking the evidence together.

Confirmed: Record A, code 01807.

Date: _____

Host signature: _____

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