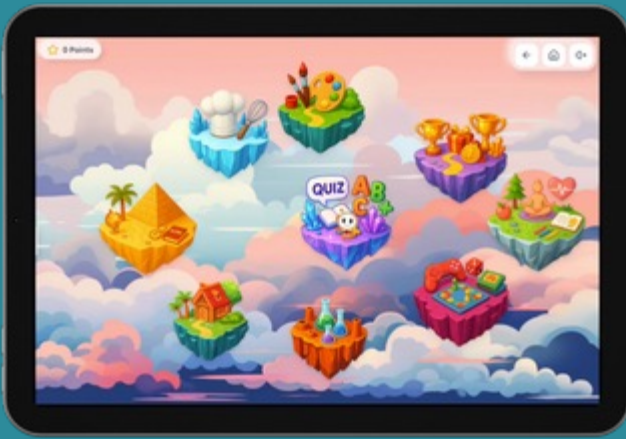


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Our Classroom Collections - Foundation

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Prepare the collection

Given question and success

Ask: “Which kind of tool is most common in this tray?” Children sort one physical tool or picture token once using its agreed main use, compare the groups and answer with a count or matching evidence.

The exact twelve-tool teaching set

Drawing (5): pencil, coloured pencil, crayon, marker, chalk.

Joining (4): glue stick, tape roll, stapler, paper clip.

Measuring (3): ruler, tape measure, set square.

Total: 12 objects and 12 records. Check that every object appears once.

Equipment and setup

Gather actual objects or the twelve R2/R4 picture cards, three category mats, a tray, pencils and a tally/recording sheet. Use the R1 display, R3 practice, R4 partner kit, R5 rehearsal and R6 assessment in order. Precut cards as needed. Agree how a borderline tool will be classified before recording it.

Access and response modes

Read the given question aloud. Let learners move or point to objects before writing. A teacher may scribe a spoken explanation when handwriting is not the target. Keep the sorting decision and evidence independent in the final task.

Five teaching sessions

Lesson 1 • Hear the given question

Show R1 and three R2 worked cards. Diagnose matching/counting of small groups. Contrast a pencil with a ruler: the agreed main-use rule, not colour, determines the group. Ask every child to name the question or show one valid placement.

Lesson 2 • Agree on one observable rule

Use R2 partner cards and R3 guided page. Model one choice, then have children explain a different tool. Correct a colour-based choice by linking what the tool is used for in this activity.

Lesson 3 • Place each object on the

Model one complete R4 turn, including checking a duplicate. Children do R3 six-tool practice and play P in pairs. Observe whether each child explains a choice rather than simply forming a partner.

Lesson 4 • Compare recorded groups

Use R3 reasoning and both R5 rehearsal pages. Match or count groups in the new nine-object tray. Repair the deliberate double-counted ruler in the eight-object case, then explain the corrected tie.

Lesson 5 • Explain from evidence

Recall the success steps without showing final answers. Give the fresh six-object R6 task independently. Listen to an oral, pointed or written explanation and use R7 to record exact evidence and a targeted next step.

Teacher key and next steps

Fixed set and comparisons

The twelve-tool set sorts 5 Drawing, 4 Joining and 3 Measuring. Drawing is most common. It has two more than Measuring. Do not count a ruler in two groups or claim these totals apply to every classroom tray.

Practice and rehearsal checks

R3 guided: pencil Drawing; tape roll Joining; ruler Measuring. R3 core: Drawing crayon/marker/coloured pencil (3); Joining tape/glue stick (2); Measuring set square (1). R5 fresh tray: 4/2/3; Drawing most. R5 repair: ruler was counted twice; correct 3/3/2, so Drawing and Joining are the same.

Independent assessment evidence

R6: Drawing marker/crayon (4); Joining glue stick/tape roll/paper clip (3); Measuring ruler (1). Drawing is most common because 3 exceeds 2 and 1. Accept equivalent evidence oral or pointing evidence. Require a consistent rule, one record per object and a conclusion linked to counts.

Support, core and extension

Support: partly labelled mat and concrete objects. Core: independent sorting, recording and comparison. Extension: locate a missing or duplicate observation and explain why the conclusion changes. Do not introduce formal averages or scaled graphs. Use the R7 evidence and next-step spaces for specific feedback.

Our Classroom Collections

Which kind of tool is most common in this tray?

Drawing



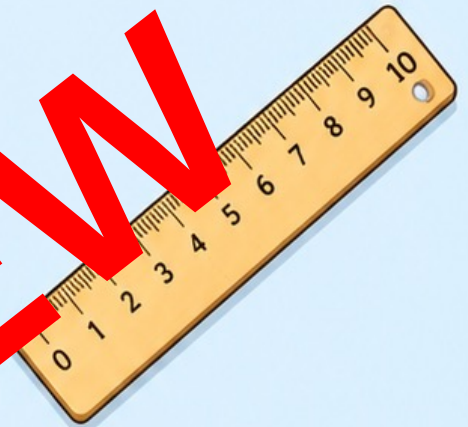
pencil → Drawing

Joining



glue stick → Joining

Measuring



ruler → Measuring

A ruler can make a line,
but we use it to measure.

Ask



Sort once



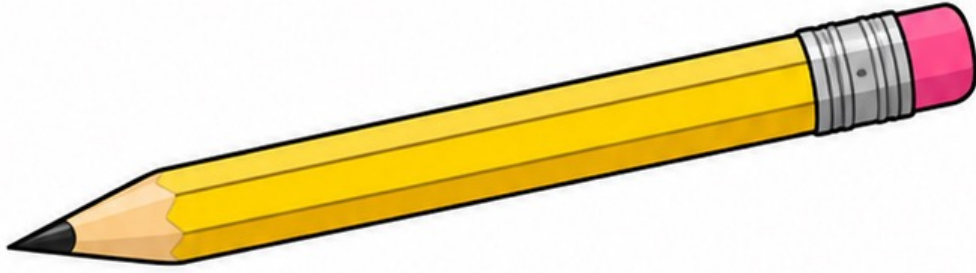
Count



Explain

Which kind of tool is most common in this tray?

Tool sorting: worked examples



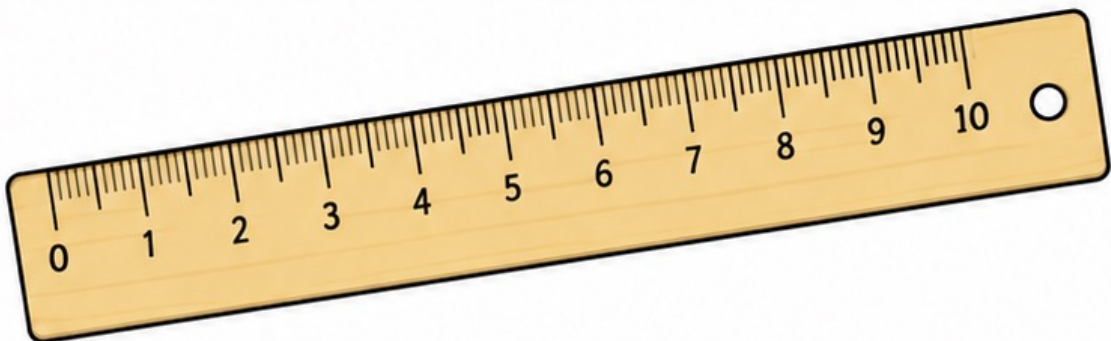
pencil → Drawing

It makes a picture.



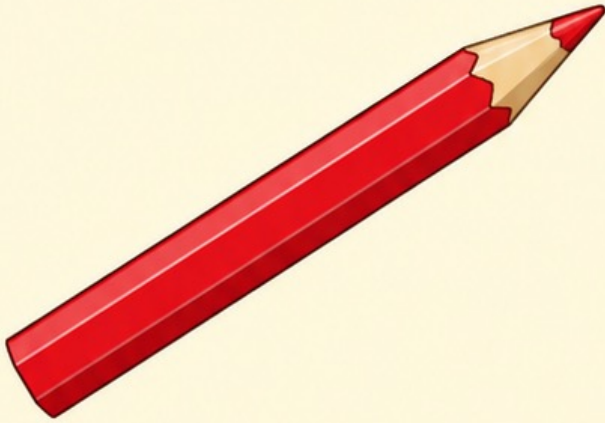
glue stick → Joining

It holds paper together.



ruler → Measuring

It measures length.



coloured pencil

Which group? Why?



are roll

Which group? Why?



tape measure

Which group? Why?

Place each tool once

Look at the tool. What is its main use? Choose one.



crayon

What is its main use?

Drawing

☐

Joining

☐

Measuring

☐

stapler

What is its main use?

Drawing

☐

Joining

☐

Measuring

☐

set square

What is its main use?

Drawing

☐

Joining

☐

Measuring

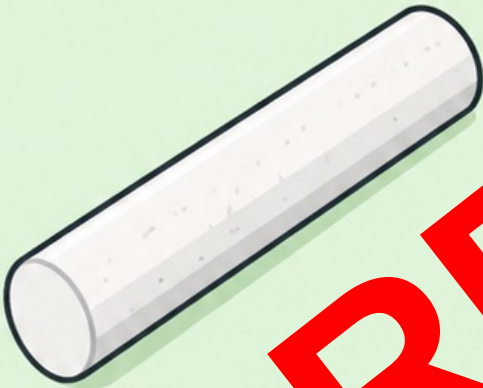
☐

Sort once and explain



marker

Which group? Why?



chalk

Which group? Why?



paper clip

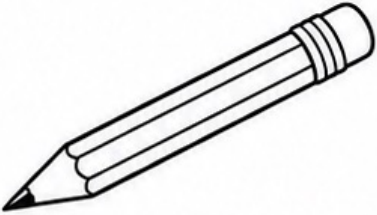
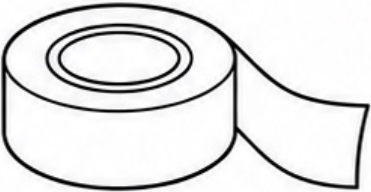
Which group? Why?

Do matching colours make the same group? Sort by use.

Name: _____

Guided sorting

What is each tool used for?
Choose the best match.

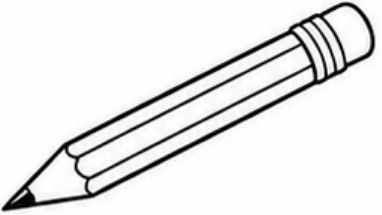
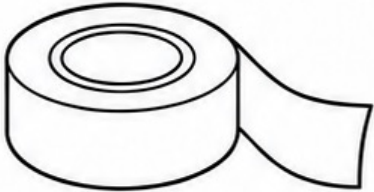
 pencil	<table><tr><td>Drawing</td><td>Joining</td><td>Measuring</td></tr><tr><td>☒</td><td>☐</td><td>☐</td></tr></table>	Drawing	Joining	Measuring	☒	☐	☐
Drawing	Joining	Measuring					
☒	☐	☐					
 tape roll	<table><tr><td>Drawing</td><td>Joining</td><td>Measuring</td></tr><tr><td>☐</td><td>☐</td><td>☐</td></tr></table>	Drawing	Joining	Measuring	☐	☐	☐
Drawing	Joining	Measuring					
☐	☐	☐					
 ruler	<table><tr><td>Drawing</td><td>Joining</td><td>Measuring</td></tr><tr><td>☐</td><td>☐</td><td>☐</td></tr></table>	Drawing	Joining	Measuring	☐	☐	☐
Drawing	Joining	Measuring					
☐	☐	☐					
 chalk	<table><tr><td>Drawing</td><td>Joining</td><td>Measuring</td></tr><tr><td>☐</td><td>☐</td><td>☐</td></tr></table>	Drawing	Joining	Measuring	☐	☐	☐
Drawing	Joining	Measuring					
☐	☐	☐					

Use each tool once.

Name: ANSWERS

Guided sorting

What is each tool used for?
Choose the best match.

 pencil	Drawing ☒ Joining ☐ Measuring ☐
 tape roll	Drawing ☐ Joining ☒ Measuring ☐
 ruler	Drawing ☐ Joining ☐ Measuring ☒
 chalk	Drawing ☒ Joining ☐ Measuring ☐

Use each tool once.

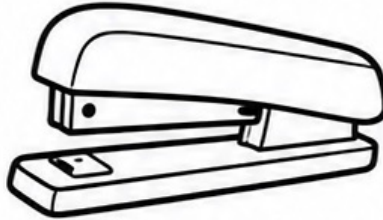
Name: _____

Sort six tools once

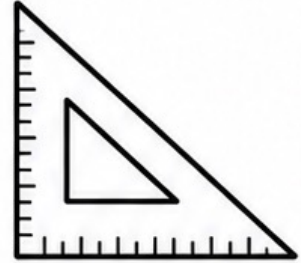
Look at the tools. Write each tool name in the correct group.



crayon



stapler



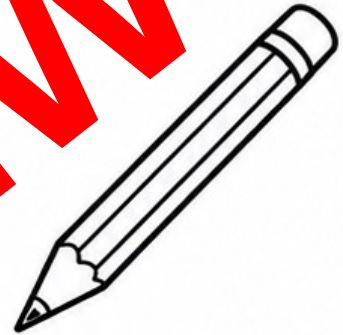
set square



glue stick



marker



coloured pencil

Drawing

Joining

Measuring

How many in each group?

Drawing _____

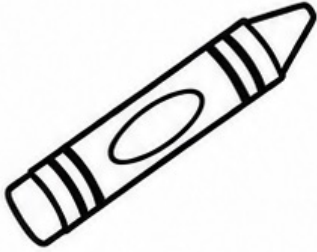
Joining _____

Measuring _____

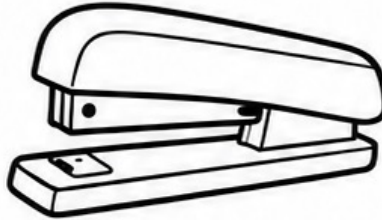
Name: **ANSWERS**

Sort six tools once

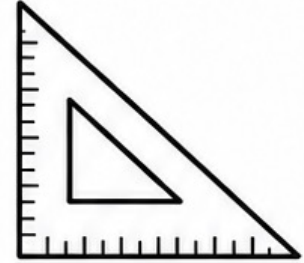
Look at the tools. Write each tool name in the correct group.



crayon



stapler



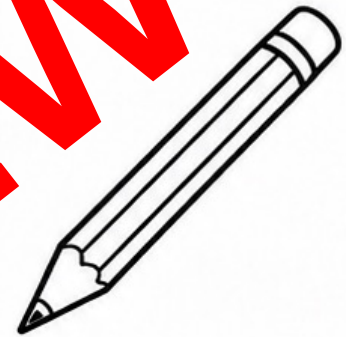
set square



glue stick



marker



coloured pencil

Drawing	Joining	Measuring
crayon marker coloured pencil	stapler glue stick	set square

How many in each group?

Drawing **3**

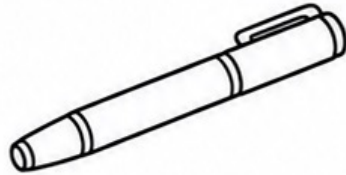
Joining **2**

Measuring **1**

Name: _____

Explain the rule

1. Blue tape and a blue marker are the same colour.
Are they in the same group? Why?



2. A ruler makes a straight line. Must it be in Drawing?
Explain our main-use rule.



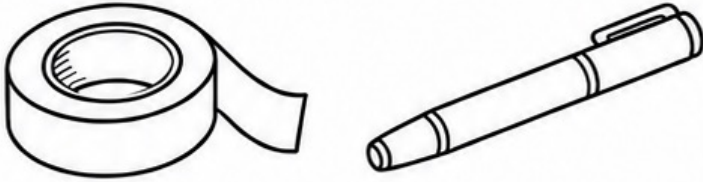
3. A paper clip is already in Joining. May we record it again?
Why?



Name: **ANSWERS**

Explain the rule

1. Blue tape and a blue marker are the same colour. Are they in the same group? Why?



No. Tape joins; a marker draws.

2. A ruler makes a straight line. Must it be in Drawing? Explain our main-use rule.



No. Our agreed main use for the ruler is measuring.

3. A paper clip is already in Joining. May we record it again? Why?



No. One object makes one record.

Sort Once, Compare Together

Tools can help us draw, join or measure. Work with a partner to sort the cards.

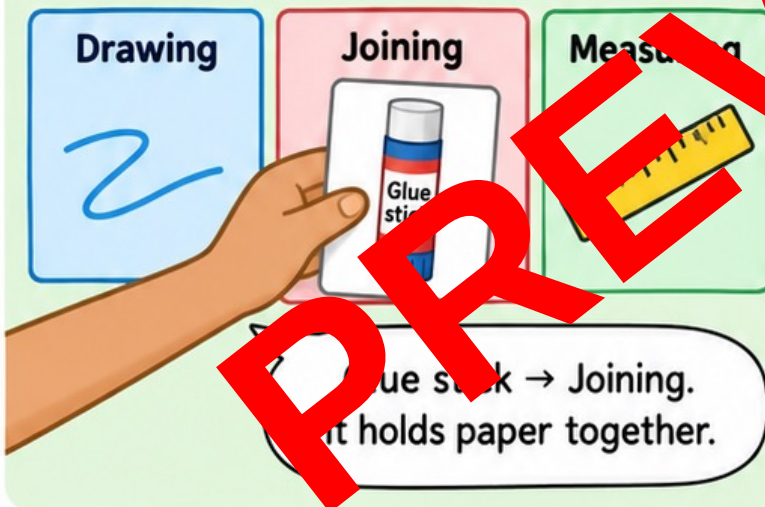
- 1.** Set out three mats:
Drawing, Joining, Measuring.



- 2.** Take one tool card.
Say its main use.



- 3.** Place it once.
Tell your partner why.

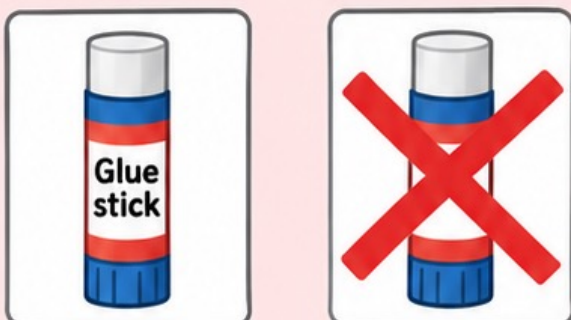


- 4.** Check together.
Then take the next card.



In two groups?

Remove the extra record.



When all 12 cards are sorted,
count each group.

Which kind is most common
in this tray?



Challenge cards 1-6



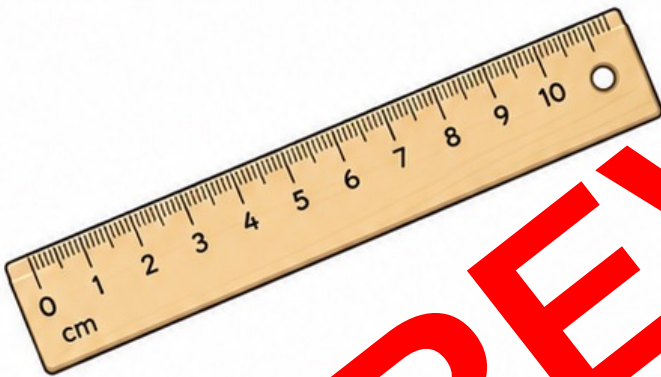
pencil

Where? Why?

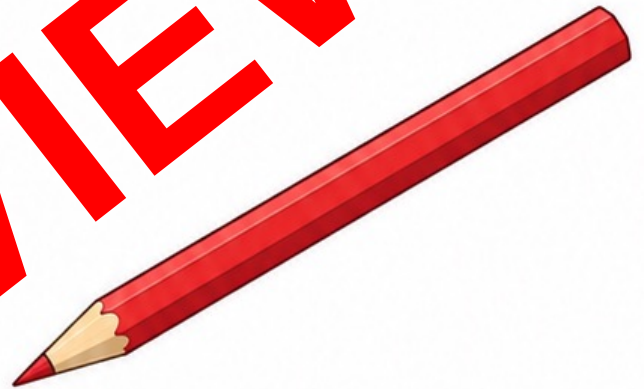


glue stick

Where? Why?

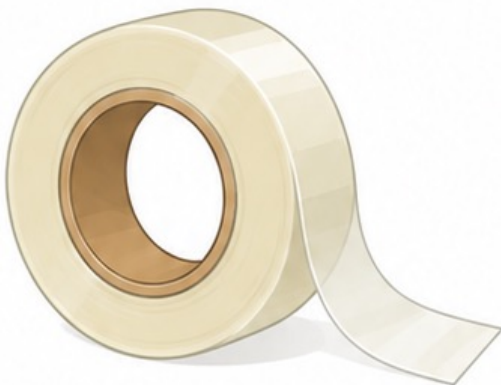


rule
Where? Why?



coloured pencil

Where? Why?



tape roll

Where? Why?



tape measure

Where? Why?

Classroom Tool Sort

Look at each tool. Where does it belong? Why?

Drawing

Joining

Measuring



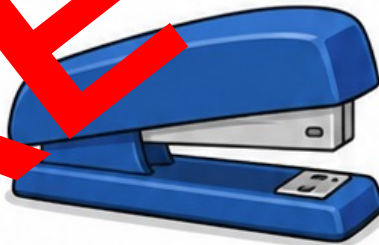
Cut out the cards below. Sort them into the correct group above.

crayon



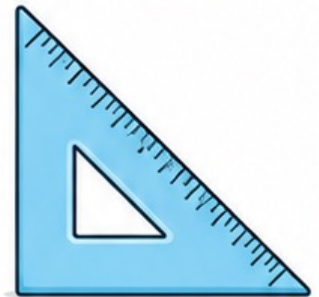
Where? Why?

stapler



Where? Why?

set square



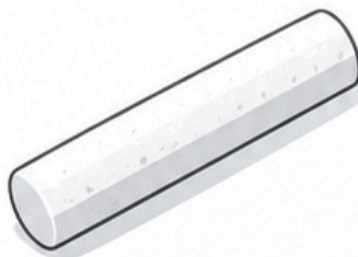
Where? Why?

marker



Where? Why?

chalk



Where? Why?

paper clip

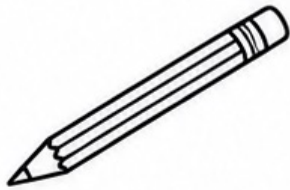


Where? Why?

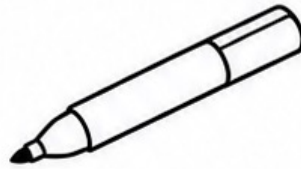
Name: _____

A fresh tray

Which kind of tool is most common?



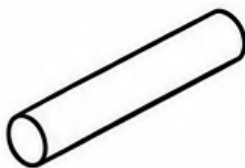
pencil



marker



crayon



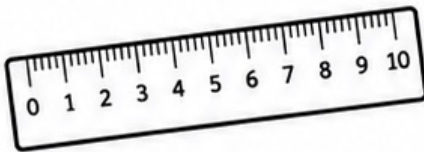
chalk



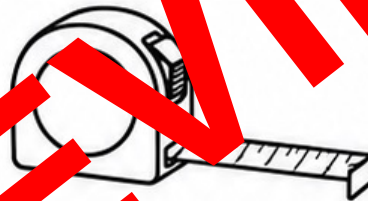
glue stick



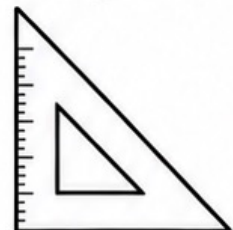
tape roll



ruler



tape measure



set square

Drawing

Joining

Measuring

Count: _____

Count: _____

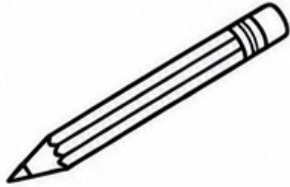
Count: _____

I know because: _____

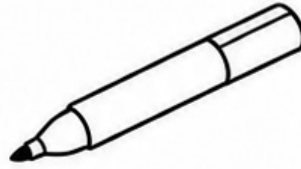
Name: **ANSWERS**

A fresh tray

Which kind of tool is most common?



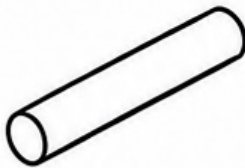
pencil



marker



crayon



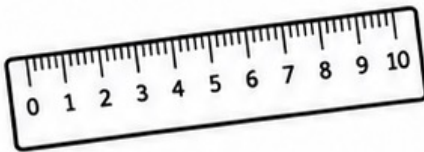
chalk



glue stick



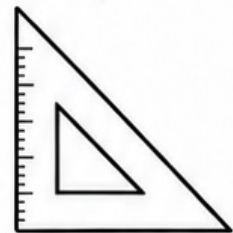
tape roll



ruler



tape measure



set square

Drawing

pencil,
marker,
crayon,
chalk

Joining

glue stick,
tape roll

Measuring

ruler,
tape measure,
set square

Count: **4**

Count: **2**

Count: **3**

I know because: **Drawing is most common. Four drawing tools are more than three measuring and two joining tools.**

Name: _____

Check the record

Look at the classroom tools below.



A child sorted and counted the tools.

A child counted 4 drawing, 3 joining and 2 measuring.

The ruler was put in Drawing and Measuring.

1. What went wrong?

2. Write the corrected counts:

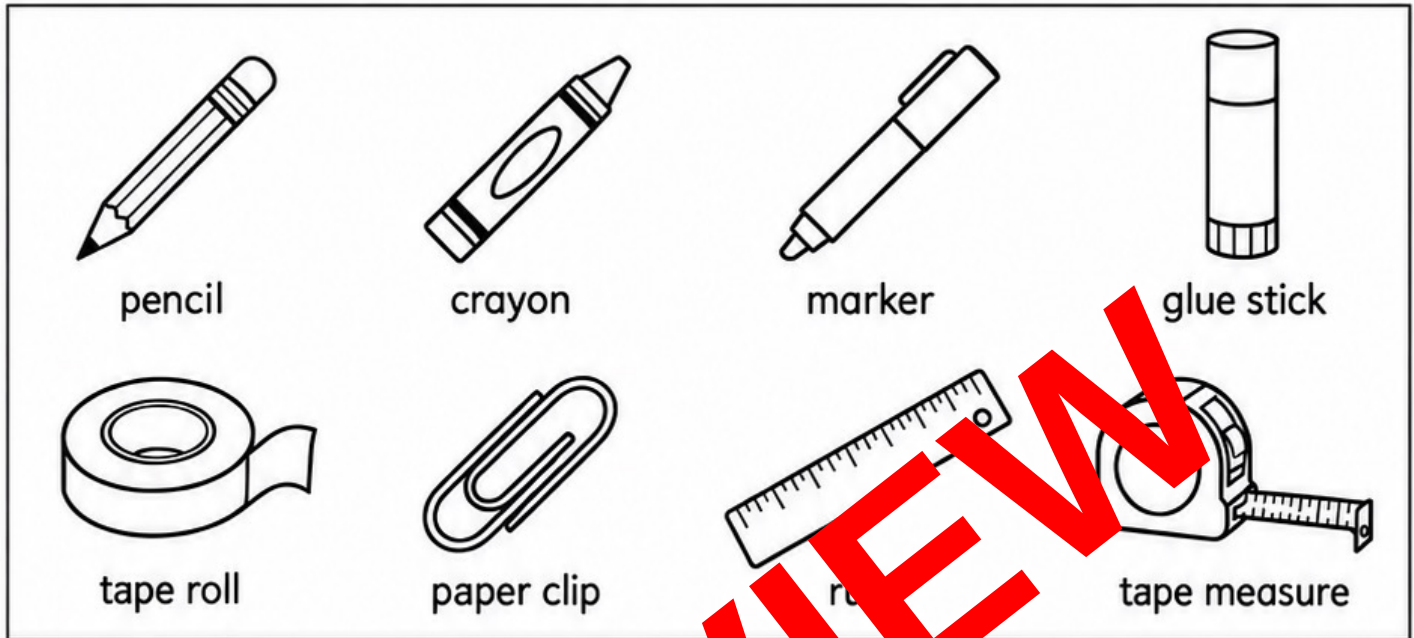
Drawing _____ Joining _____ Measuring _____

3. Which groups have the same number? How do you know?

Name: _____ **ANSWERS**

Check the record

Look at the classroom tools below.



A child sorted and counted the tools.

A child counted: drawing, 3 joining and 2 measuring.

The ruler was put in Drawing and Measuring.

1. What went wrong?

The ruler was counted twice. One object needs one record.

2. Write the corrected counts:

Drawing **3** Joining **3** Measuring **2**

3. Which groups have the same number? How do you know?

Drawing and Joining have the same number: three each.

Name: _____

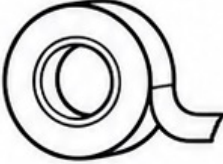
Show what you know

Which kind of tool is most common in this tray?

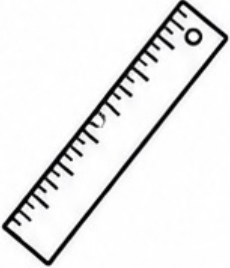

marker


crayon


glue stick


tape roll


paper clip


ruler

Drawing	Joining	Measuring

How many? _____ How many? _____ How many? _____

The most common kind is _____. I know because _____.

You may tell or point to show your thinking.

Name: ANSWERS

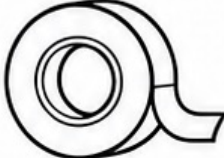
Show what you know

Which kind of tool is most common in this tray?

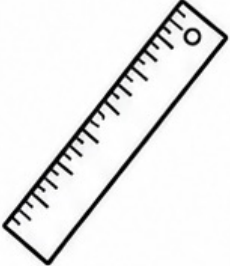

marker


crayon


glue stick


tape roll


paper clip


ruler

Drawing	Joining	Measuring
marker, crayon	glue stick, tape roll, paper clip	ruler

How many? 2 How many? 3 How many? 1

The most common kind is Joining. I know because three joining tools are more than two drawing tools and one measuring tool.

Accept accurate oral or pointing evidence.

Our Classroom Collections — Learning Evidence Rubric

Criterion	Needs teaching	Developing with support	Target met independently
Concept / accuracy 	Inaccurate sort.	Sorts familiar tools with prompt.	Sorts fresh set accurately once.
Application / procedure 	Cannot complete task yet.	Completes with model or prompt.	Independently records each object once.
Reason / evidence 	Guess without evidence.	Names count with prompting.	Explains most or same using counts.
Transfer / communication 	Response unclear or does not transfer.	Fresh case needs support.	Clearly explains fresh case.

Evidence noticed:

Next teaching step:

Our Classroom Collections



Our question

Which kind of tool is most common in the trade?

We will sort each tool once, compare groups and explain with evidence.

Before we begin: match two small sets. Which has more? Which has fewer?



Words we need

A question asks what we want to find out.

Data are the objects or records we collect.

Sort means put each object in one agreed group.

More, fewer and same compare group sizes.



Choose one sorting rule

Use the given question about the classroom tools.
Sort by each tool's main use: drawing, joining or measuring.
One tool makes one record. We can explain why it belongs.



First tool: pencil

This pencil is for making pictures.
Place one pencil token in Drawing.
Say why: "I put it here because it draws."



A careful contrast ruler

A ruler can help make a straight line.
Our agreed main use for it here is measuring length.
Place it once in Measuring, not in two groups.



Your turn: glue stick

Pause. Which group should get a glue stick?

Explain its main use before you move one token.

Check that the other two groups do not also get this tool.



Glue stick: explain

Glue stick belongs in Joining.

It holds pieces of paper together.

One glue stick makes one Joining ready.



Sort by use, not colour

Chalk helps draw a mark or picture.

A tape roll helps join pieces together.

Even if tools match in colour, their main uses can differ.



Model one game turn

Pick one tool card: glue stick.

Say its main use: joining paper.

Place one card on Joining. Ask a partner to check the reason.



Partner challenge

Pick the paper clip card.

Which group? Explain before placing it once.

Then check the whole collection: is any tool missing or counted twice?



Repair a double count

A ruler was put in Drawing and Measuring.

That makes thirteen records from twelve tools.

Remove the extra record. Keep the ruler in Measuring.



A fresh tray

A new tray has 4 drawing, 2 joining and 2 measuring tools.

Which group has more?

Explain using a count or one-to-one matching.



Choose your route

Support: move real objects on a partially labelled mat.

Core: record each object independently and compare counts.

Extension: find a missing or double-counted record and repair it.



Show what you know

Listen to the given question about new smart day.

Sort every tool by the agreed gain-use rule.

Count each group, then say which is more or fewer and why.



Check your evidence

Did every object appear exactly once?

Which group has more, fewer, or the same?

Point to the objects or counts that support your answer.



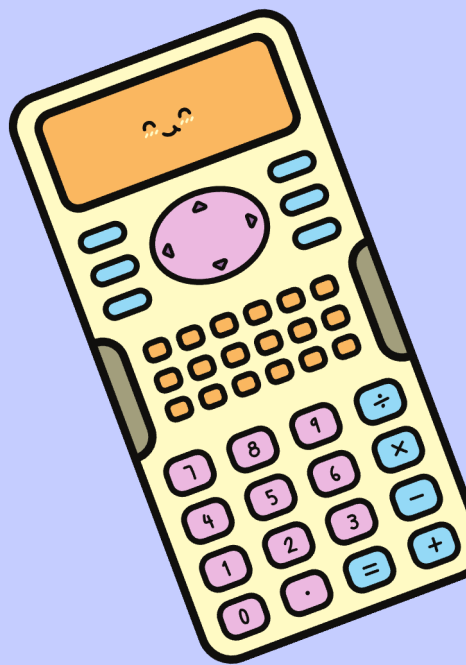
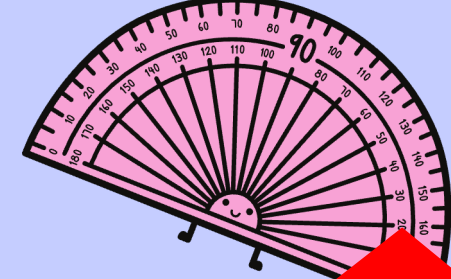
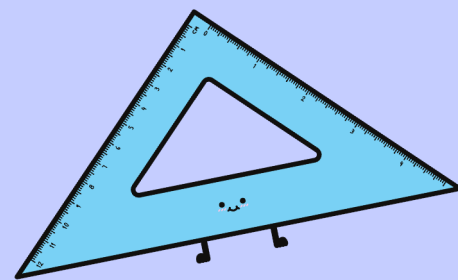
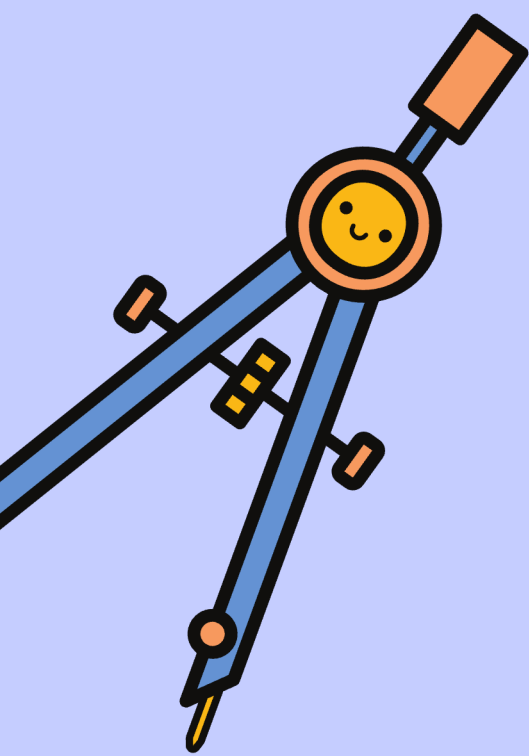
Our sorting method

Hear a given question. Agree on one observation rule.

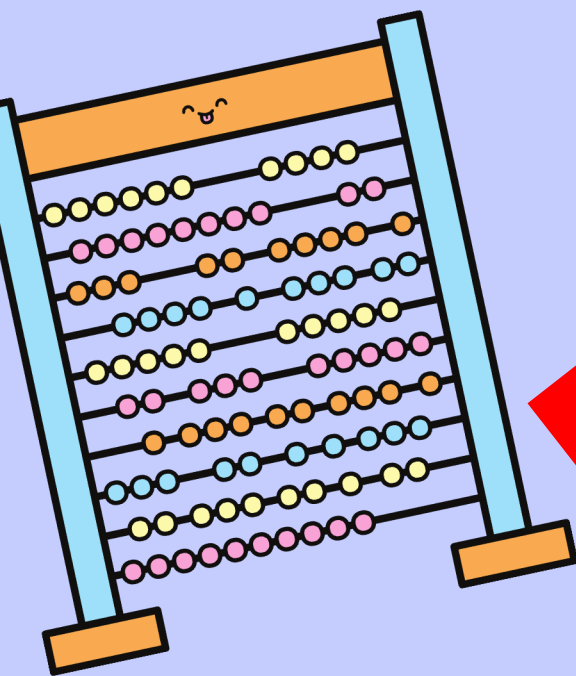
Place and record each object once.

Compare the groups and answer with evidence.

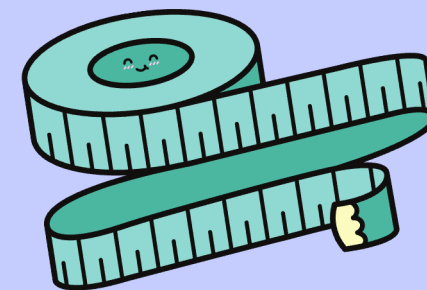
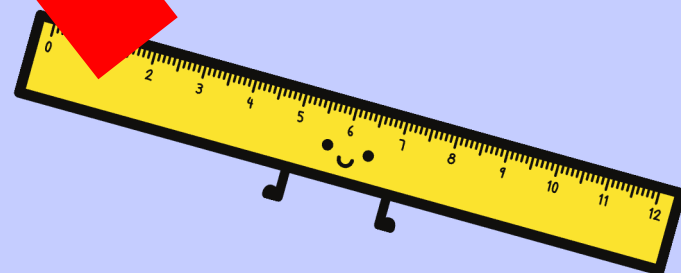




Well done!
Sort once and explain.



PREF



Our Classroom Collections



Q1 · Largest group

Our tray has 5 drawing, 4 joining and 3 measuring tools.
Which group is largest?



AI · Drawing

Drawing is largest with 5 tools. Five is more than four and three.



Q2 · How many more?

There are 5 drawing and 3 measuring tools.
How many more drawing tools are there?



A2 · Two more

Match three pairs. Two drawing tools are left over, so there are 2 more.



Q3 . Count once

Can one tool be counted in two groups under an agreed rule?



A3 . One group only

No. Agree on its main use in this activity and make one record for that tool.



Q4 · A marker

Where does a marker go in our classroom-toilet? Explain.



A4 . Drawing

Marker goes in Drawing because we use it to make marks and pictures here.



Q5 . Same colour

A tape roll is the same colour as a mark.
Does that make them the same group?



A5 . Sort by use

No. Tape joins pieces; a marker draws. colour not our sorting rule.



Q6 · Repair the record

A record shows 5 drawing, 4 joining and 1 measuring tools.
A ruler was counted twice. What should we do?



A6 · Remove the duplicate

Remove the ruler from the wrong group. The correct counts are 5, 4 and 3, totalling 12.



Q7 . Paper clip

Sort a paper clip. Explain your choice and how many records it makes.



A7 · Joining

A paper clip holds sheets together here, on its joining. It makes one record.



Q8 . Compare two room

How are a pencil and ruler alike? How are they different?



A8 . Use the rule

Both are tools. The pencil draws; the ruler measures by our agreed main-use rule.



Q9 . A tie

A fresh tray has 3 drawing, 2 joining and 3 measuring tools.
Which groups have the same number?



A9 . Drawing and Measuring

Drawing and Measuring each have 3. These groups have the same number.



Q10 · Show the evidence

How can you show that Drawing and Measurement are the same in Q9?



A10 · Match the records

Point to three tokens in each group for matching in one to one. A guess alone is not enough



Q11 · Check a claim

Someone says: “Drawing is always the largest part of group.”

Does our tray prove that?



All . Only this tray

No. The result describes the collection was sorted. Another tray could have different counts.



Q12 · New tray

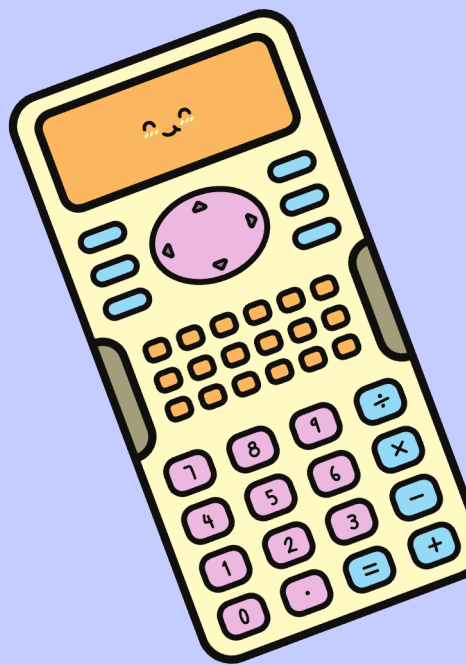
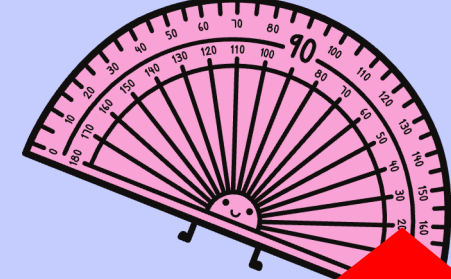
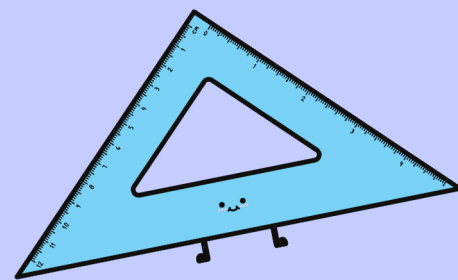
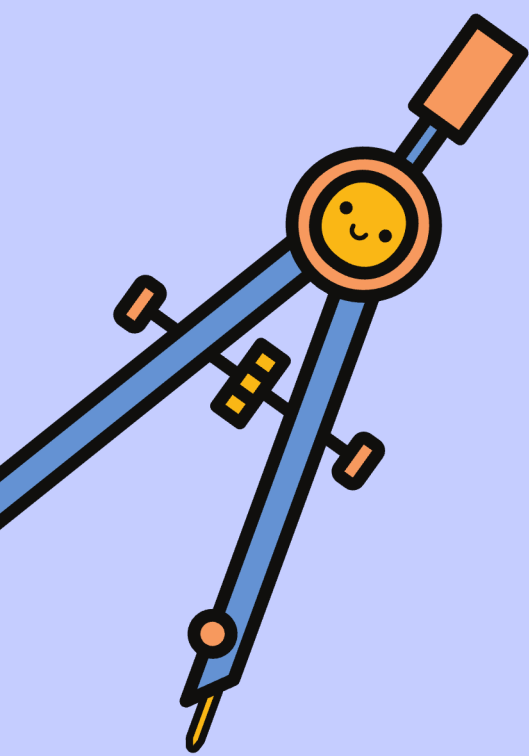
A new tray has 2 drawing, 3 joining and measuring tool.
Which kind is most common. Explain



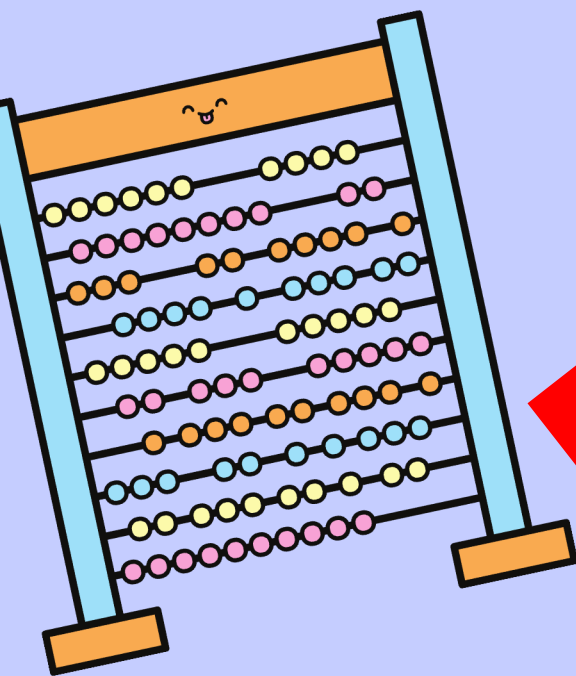
AI2 · Joining

Joining has 3. Three is more than two and on each of the 6 tools was counted once.





Well done!
Sort once and explain.



PREVIEW

