

Sukindi

— LEARNING —

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Data - Foundation

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ASK, COLLECT, SORT, COMPARE

1 ASK

What do we want to find out?



2 COLLECT

Gather answers or objects.



3 SORT

Put the same things together.



4 COMPARE

Which group has the most, least or the same?



Data helps us answer questions.

Name: _____

Date: _____

SORT THE SNACK PICTURES

Circle each fruit. Count each group. Write the totals.



FRUIT TOTAL

NOT FRUIT TOTAL

Circle the group with more:

FRUIT

NOT FRUIT

Name: **ANSWERS**

Date: _____

SORT THE SNACK PICTURES

Circle each fruit. Count each group. Write the totals.



FRUIT TOTAL

6

NOT FRUIT TOTAL

4

Circle the group with more:

FRUIT

NOT FRUIT

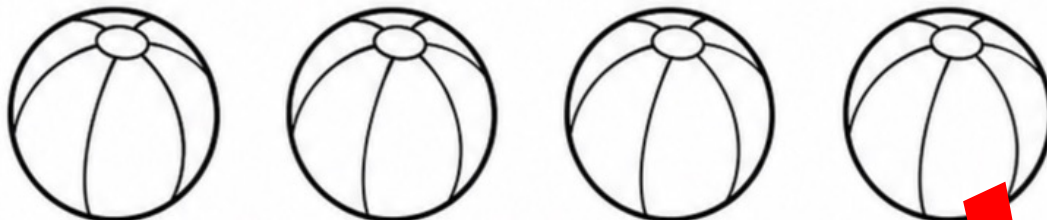
Name: _____

Date: _____

TOY TALLY

Count each row. Draw tally marks. Write the number.

BALLS



BLOCKS



CARS



TOY	TALLY MARKS	NUMBER
BALLS		
BLOCKS		
CARS		

Which toy group has the most? _____

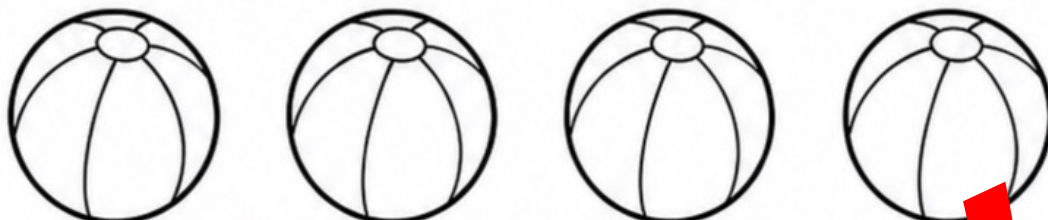
Name: **ANSWERS**

Date: _____

TOY TALLY

Count each row. Draw tally marks. Write the number.

BALLS



BLOCKS



CARS



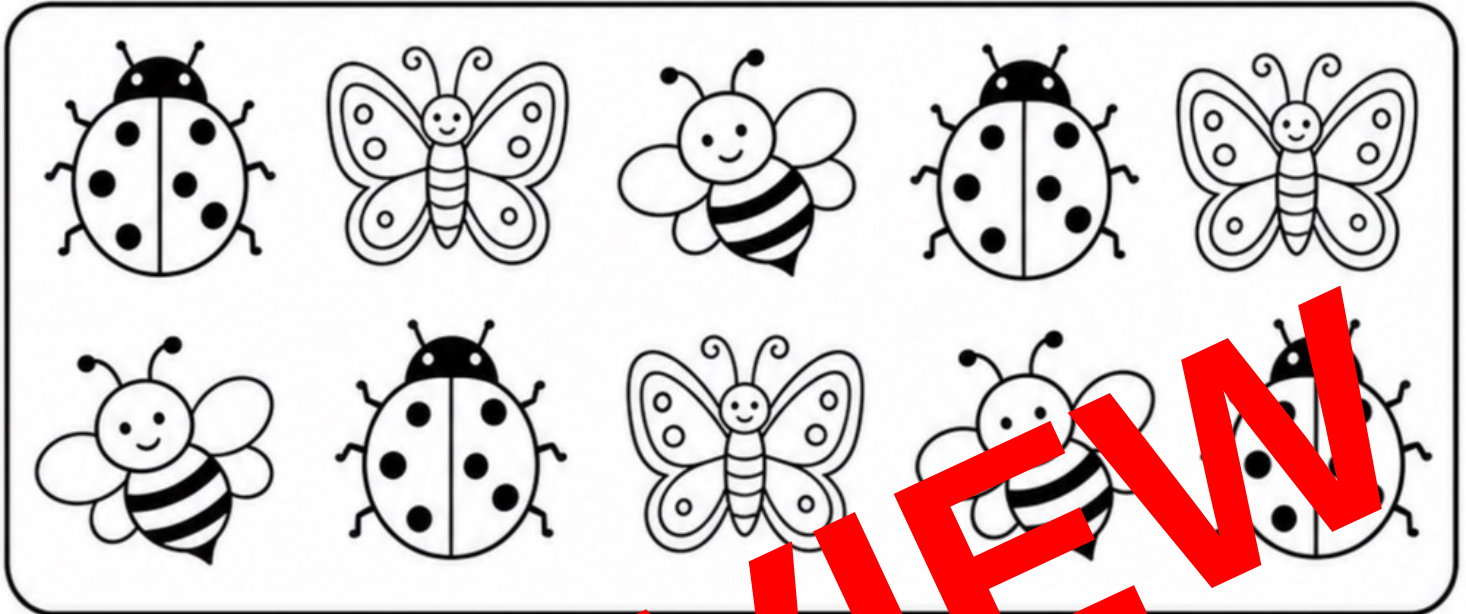
TOY	TALLY MARKS	NUMBER
BALLS		4
BLOCKS	 	6
CARS		3

Which toy group has the most? **Blocks**

Name: _____ Date: _____

MAKE A BUG PICTURE GRAPH

Count the bugs. Colour one box for each bug.



LADYBIRDS					
BUTTERFLIES					
BEES					

1 box = 1 bug

1. Which bug has the most?

2. Which two bug groups are the same?

Name: _____ **ANSWERS** Date: _____

MAKE A BUG PICTURE GRAPH

Count the bugs. Colour one box for each bug.



LADYBIRDS	X	X	X	X	
BUTTERFLIES	X	X	X		
BEES	X	X	X		

1 box = 1 bug

1. Which bug has the most?

Ladybirds

2. Which two bug groups are the same?

Butterflies and bees

Name: _____

Date: _____

READ THE PET GRAPH

Look at the picture graph. Answer the questions.



1 picture = 1 vote

1. Which pet has the most votes?

2. Which pet has the least votes?

3. How many votes for dogs?

4. How many more cats than fish?

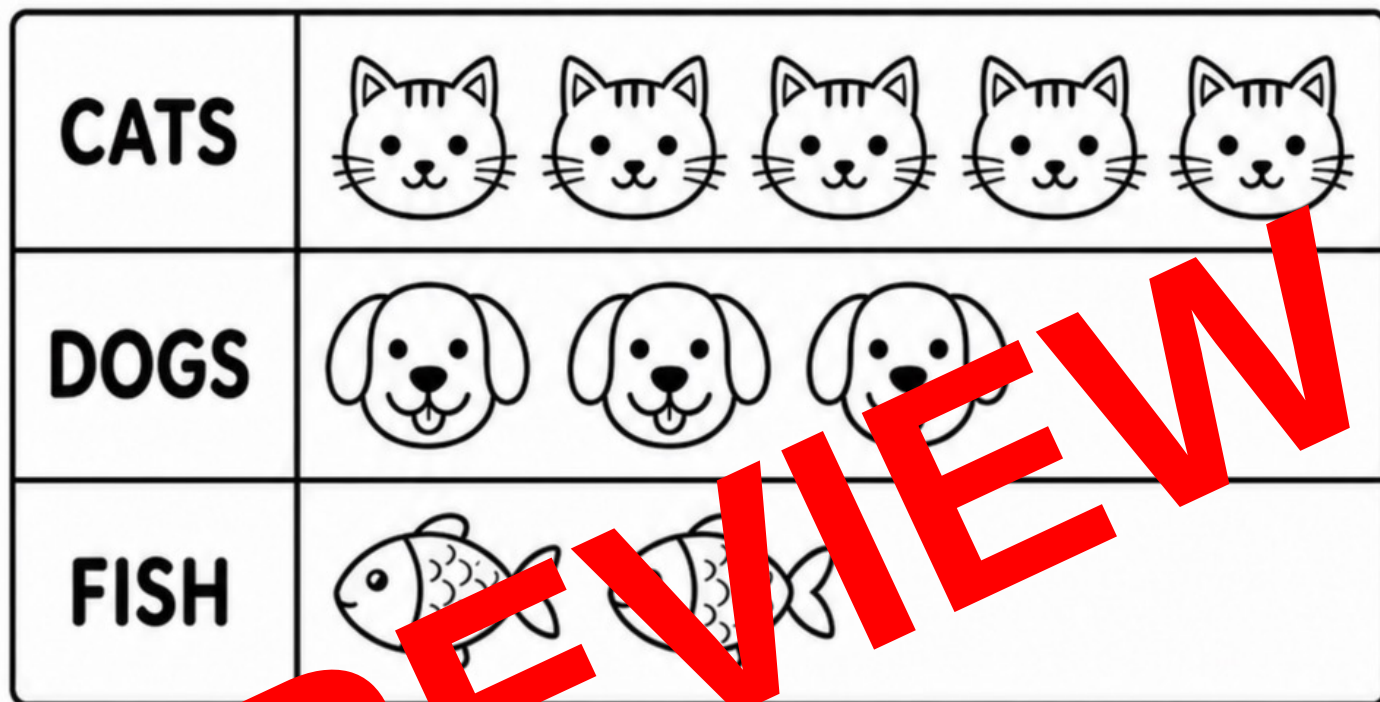
Name: _____

ANSWERS

Date: _____

READ THE PET GRAPH

Look at the picture graph. Answer the questions.



1 picture = 1 vote

1. Which pet has the most votes?

Cats

2. Which pet has the least votes?

Fish

3. How many votes for dogs?

3

4. How many more cats than fish?

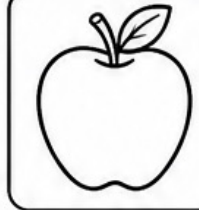
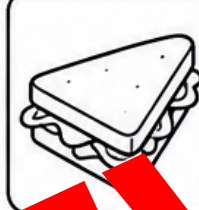
3

Name: _____

Date: _____

LUNCH CHOICE SURVEY

Count the choices. Add tally marks. Colour one box for each choice.

CHOICE	TALLY MARKS	NUMBER
SANDWICH		
APPLE		
YOGHURT		

SANDWICH	☐	☐	☐	☐	☐	☐
APPLE	☐	☐	☐	☐	☐	☐
YOGHURT	☐	☐	☐	☐	☐	☐

1 box = 1 choice

Which lunch choice is the most popular?

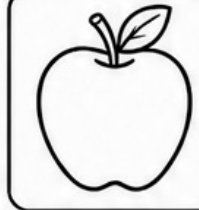
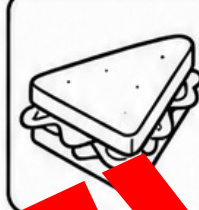
Name: _____

ANSWERS

Date: _____

LUNCH CHOICE SURVEY

Count the choices. Add tally marks. Colour one box for each choice.

CHOICE	TALLY MARKS	NUMBER
SANDWICH		5
APPLE		4
YOGHURT		3

SANDWICH	☒	☒	☒	☒	☒	☐
APPLE	☒	☒	☒	☒	☐	☐
YOGHURT	☒	☒	☒	☐	☐	☐

1 box = 1 choice

Which lunch choice is the most popular?

Sandwich

Name: _____

Date: _____

WHICH GRAPH IS TRUE?

Count the shapes. Circle the graph that matches the data.



GRAPH A	
STARS	   
CIRCLES	  
TRIANGLES	 

GRAPH B	
STARS	  
CIRCLES	   
TRIANGLES	 

1. Which shape has the most?

2. Which shape has the least?

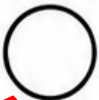
Name: ANSWERS

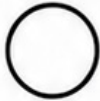
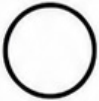
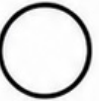
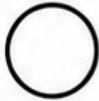
Date: _____

WHICH GRAPH IS TRUE?

Count the shapes. Circle the graph that matches the data.



GRAPH A	
STARS	   
CIRCLES	  
TRIANGLES	 

GRAPH B	
STARS	  
CIRCLES	   
TRIANGLES	 

1. Which shape has the most?

Stars

2. Which shape has the least?

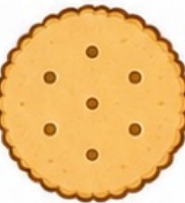
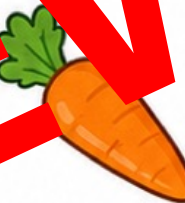
Triangles

PICNIC PICTURE SORT

Cut out the pictures. Sort them. Count each group.

FRUIT

NOT FRUIT

Fruit total:

Which group has more?

Not fruit total:

DATA DETECTIVE TRAIL



BLUE: Ask a question.

YELLOW: Sort into groups.

GREEN: Name the most or least.

CORAL: Count one group.

1. Plan, collect, sort, compare and move.

2. Plan the task for your space.

3. Use classroom objects or picture cards.

4. First to **FINISH** wins.

Name: _____

Date: _____

PLAYGROUND CHOICES DATA CHECK

ASSESSMENT

Count the choices. Record the data. Complete the graph.



CHOICE	TALLY MARKS	NUMBER
SWING		
SLIDE		
SANDPIT		

SWING	☐	☐	☐	☐	☐	☐
SLIDE	☐	☐	☐	☐	☐	☐
SANDPIT	☐	☐	☐	☐	☐	☐

1 box = 1 choice

- Which choice is the most popular? _____
- Which choice is the least popular? _____
- How many more chose the swing than the sandpit? _____

Name: ANSWERS

Date: _____

PLAYGROUND CHOICES DATA CHECK

ASSESSMENT

Count the choices. Record the data. Complete the graph.



CHOICE	TALLY MARKS	NUMBER
SWING		5
SLIDE		4
SANDPIT		3

SWING	☒	☒	☒	☒	☒	☐
SLIDE	☒	☒	☒	☒	☐	☐
SANDPIT	☒	☒	☒	☐	☐	☐

1 box = 1 choice

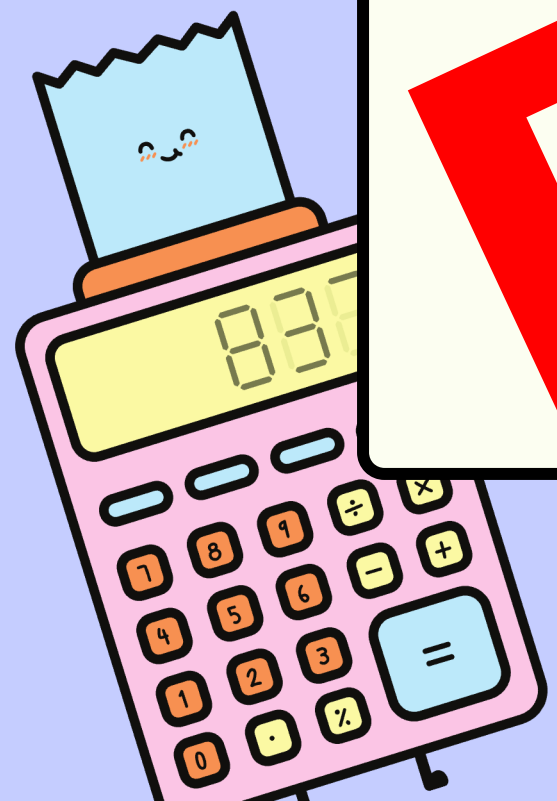
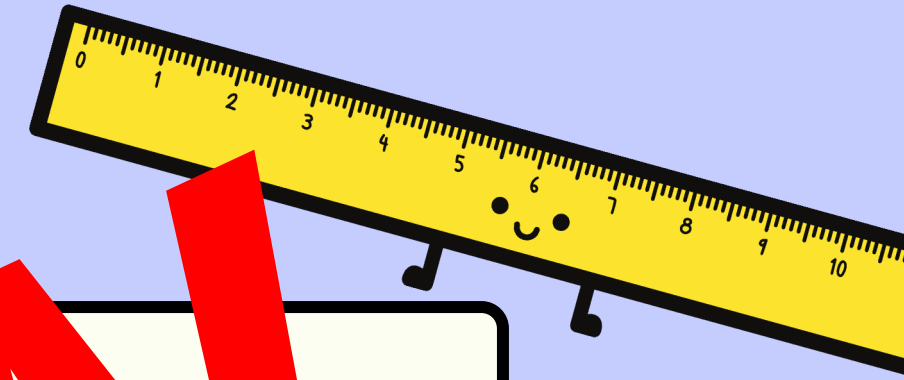
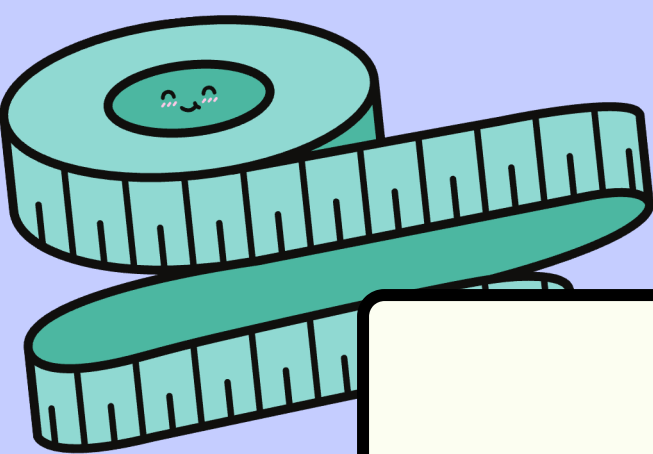
- Which choice is the most popular? Swing
- Which choice is the least popular? Sandpit
- How many more chose the swing than the sandpit? 2

DATA - FOUNDATION RUBRIC

Student: _____ Date: _____

CRITERIA	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
QUESTION	Needs help to follow the question.	Follows the question with prompts.	Follows a simple question.	Suggests a useful question.	Explains why the question is useful.
SORT DATA	Needs help to sort.	Sorts some objects.	Sorts objects correctly.	Sorts and checks groups.	Sorts in more than one way.
RECORD DATA	Needs help to record.	Records some data.	Records data with prompts.	Records clearly and accurately.	Chooses an effective display.
COMPARE	Needs help to compare.	Names one group.	Names most, least or some.	Compares groups correctly.	Explains the comparison clearly.

Teacher comment:



PREVIEW

Data Foundation

A cartoon character of a notepad with a face, wearing a blue graduation cap and holding a yellow pencil, is positioned in the bottom-right corner of the central white box.

Learning Goal

We are learning to ask a simple question, collect and sort data, make a picture graph, and compare the results.



What Is Data?

Data is information we collect to answer a question.

We can collect data using objects, pictures or answers.



Start With A Question

A data investigation begins with a question.

Example: Which fruit does our class like best?



Collect Data

Ask one person at a time.

Record each answer once.

Use object or picture cards so every answer is easy to see.



Sort Into Groups

Put matching numbers together.

Apples go in one group.

bananas go in another group.



Count Each Group

Touch each object once as you count.

Write the total beside the group.



Make A Picture Graph

Give each group one row.

Use one picture for each answer.

Start each row at the same place.



Read A Graph

Use the labels and the key.

Look at the pictures in each row.

Then answer the question.



Compare Most And Least

Most means the group with the greatest number.

Least means the group with the smallest number.



Groups Can Be The Same

Two groups are the same when they have equal numbers.

Their groups finish at the same place.

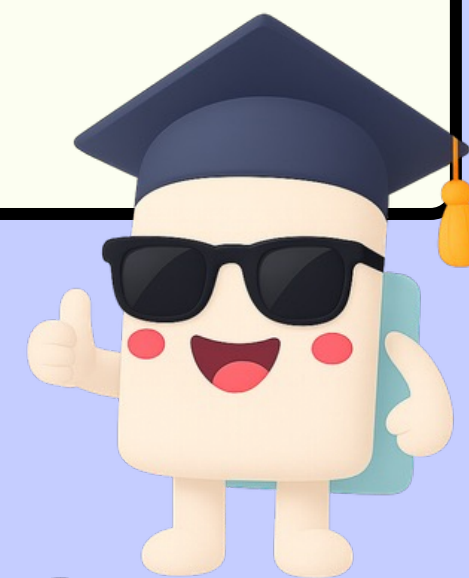
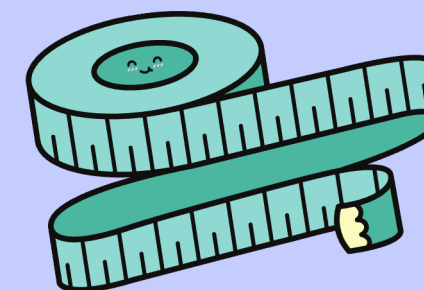
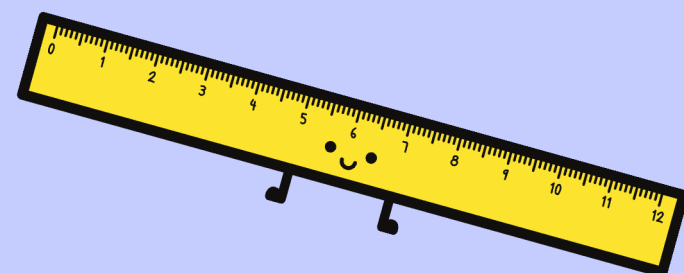
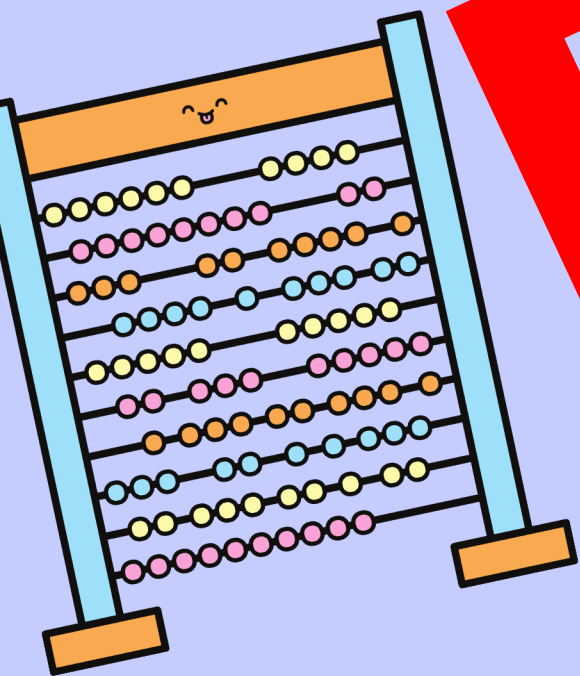
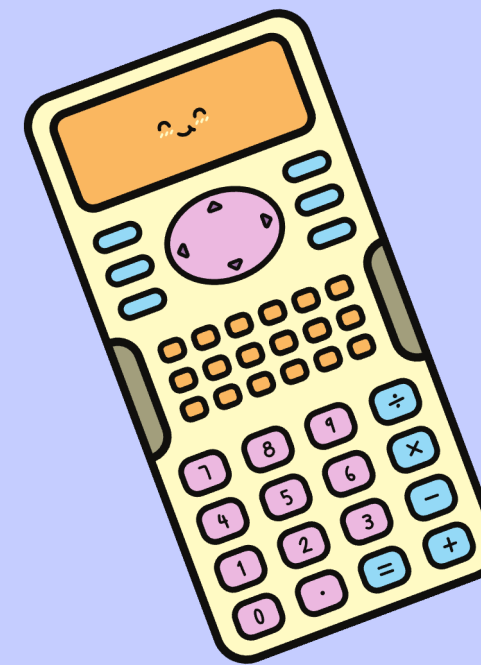
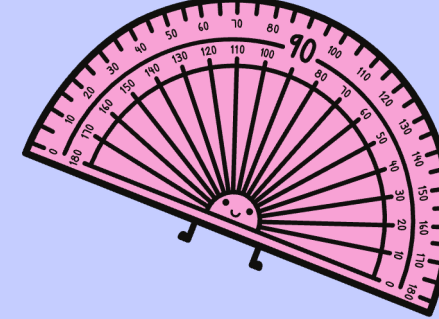
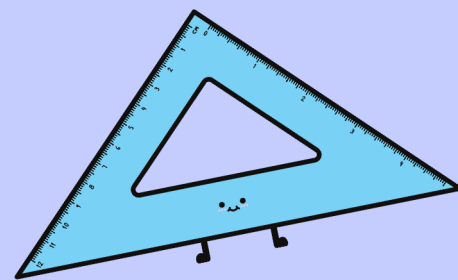
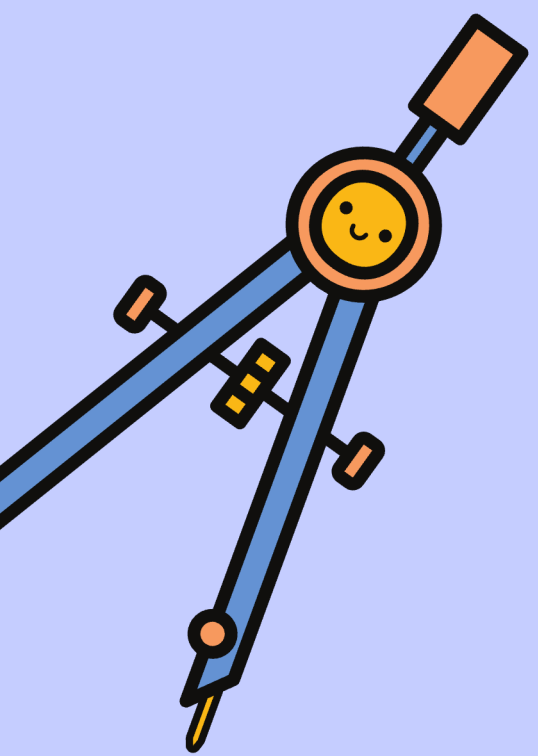


Try The Data Cycle

Ask: Which playground activities do you like?

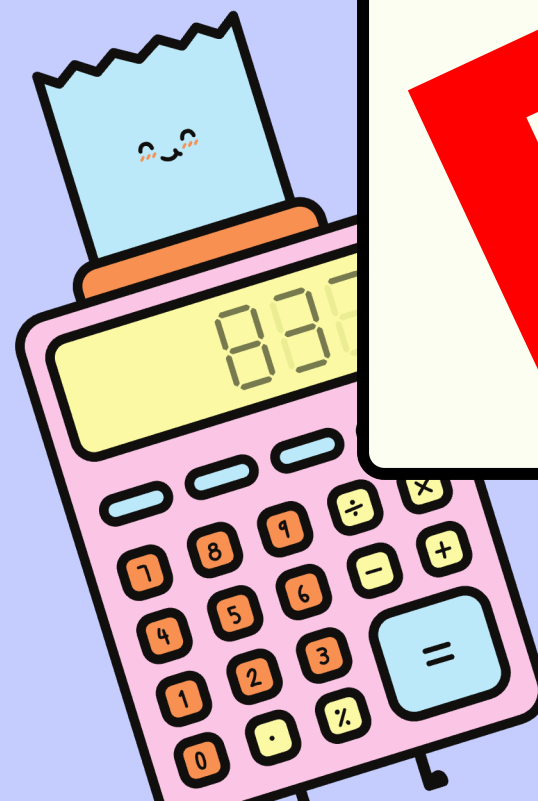
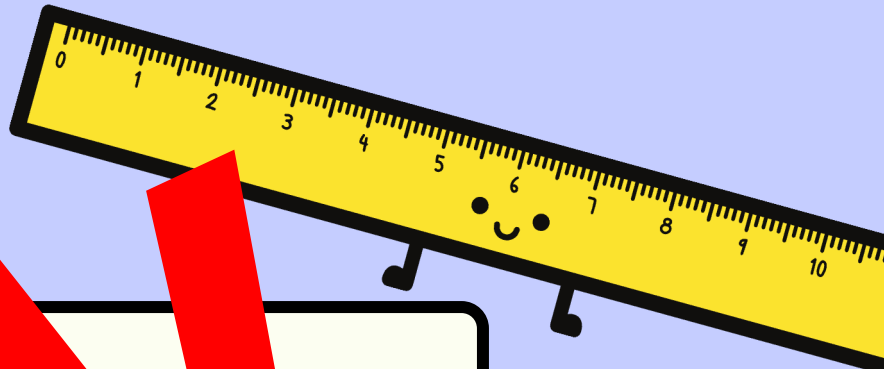
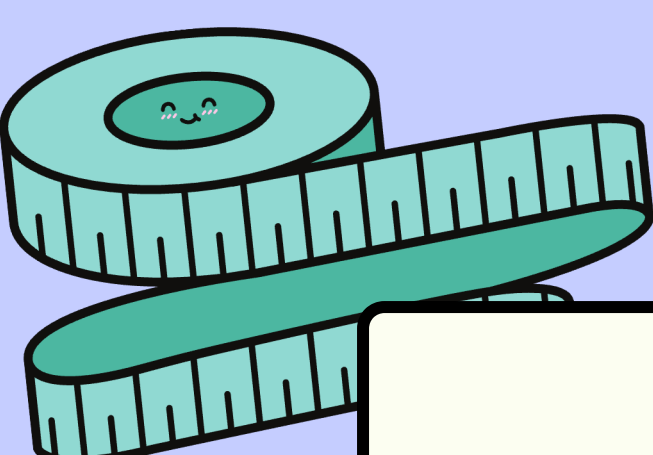
Collect answers. Sort them. Make a picture graph. Compare the groups.





PREVIEW

Well Done!



PREVIEW

Data Foundation Quiz

A cartoon character of a notepad with a face, wearing a blue graduation cap and holding a yellow pencil, is positioned in the bottom-right corner of the central white box.

Question 1

Which is a good data question?

A. What is your favourite fruit?

B. Close the door.

C. Write your name.

D. Draw a triangle.



Answer 1

PREVIEW

1. What is your favourite fruit?



Question 2

PREVIEW

Time or these data can help us answer questions.



Answer 2

PREVIEW

True Data can help us answer questions.



Question 3

Short answer: There are 3 apple cards and 2 banana cards.

Which group has the most?



Answer 3

PREVIEW

The people group has the most.



Question 4

Which meaning matches the word "group"?

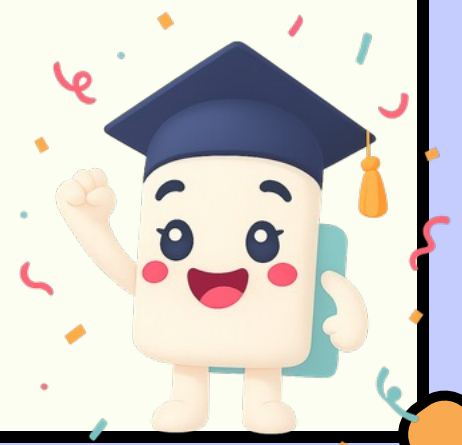
- A. The greatest group
- B. The smallest group
- C. Two equal groups
- D. The graph title



Answer 4

PREVIEW

Each means the smallest group.



Question 5

True or false: If two groups each have 4 pictures, the groups are the same.



Answer 5

PREVIEW

...e. ... groups have 4 pictures.



Question 6

Short answer A picture graph shows 5 cats and 3 dogs. How many votes are for dogs?



Answer 6

PREVIEW

votes are for dogs.



Question 7

What should you do after asking a data question?

- A. Collect answers
- B. Erase the graph
- C. Guess the result
- D. Hide the data



Answer 7

PREVIEW

A. Collect answers.



Question 8

Short answer: A group has 4 stars and 2 circles. How many more stars are there than circles?



Answer 8

PREVIEW

ere are 2 more stars.



Question 9

True or false: If the key says 1 picture = 1 vote, each picture shows one vote.



Answer q

PREVIEW

one. Each picture shows one vote.



Question 10

Which group has the most?

A. Apples: 2

B. Bananas: 5

C. Oranges: 3

D. Pears: 1

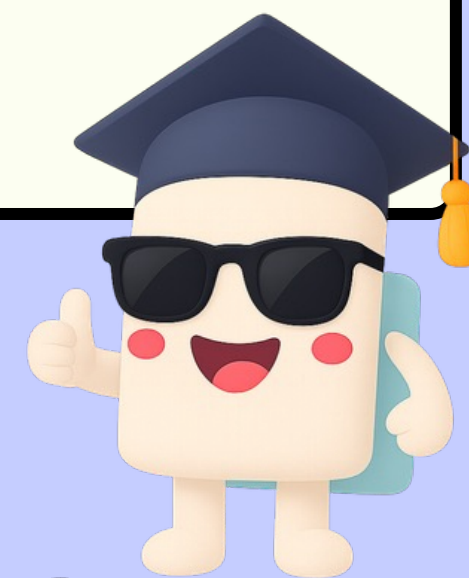
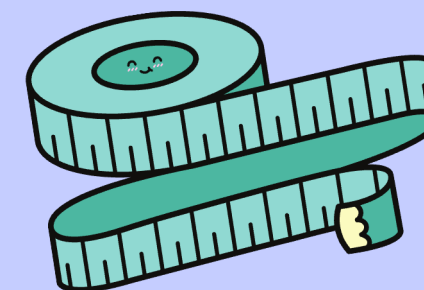
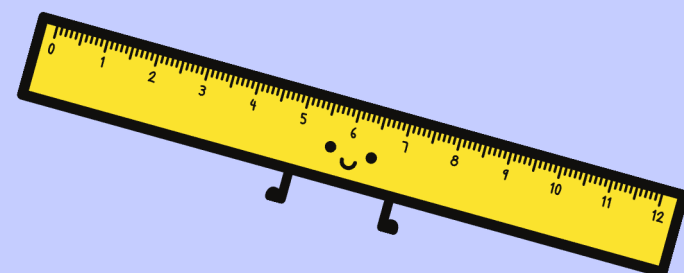
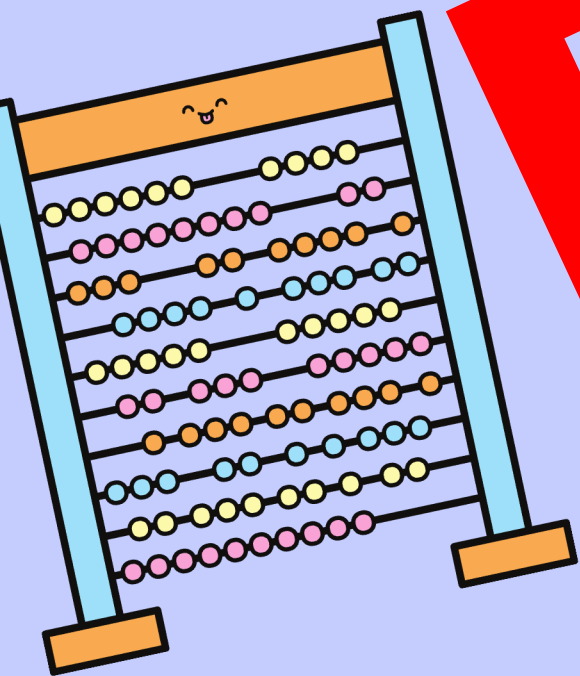
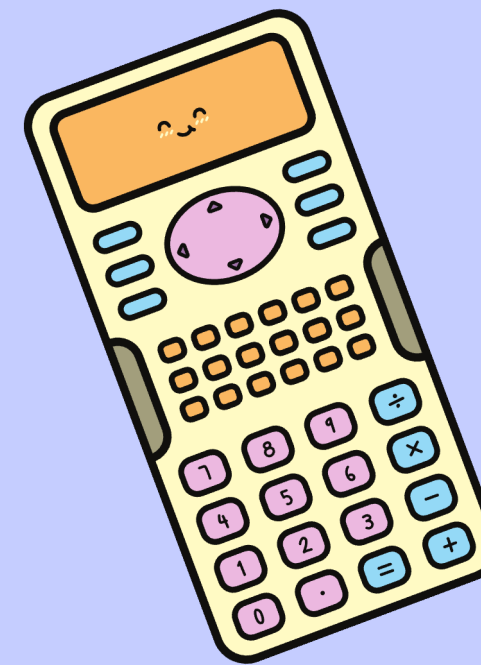
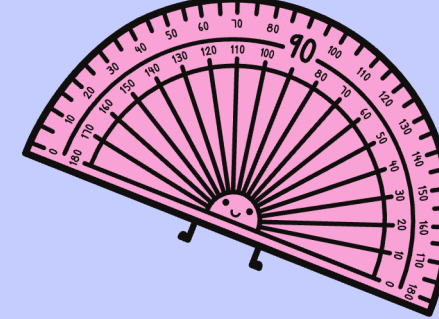
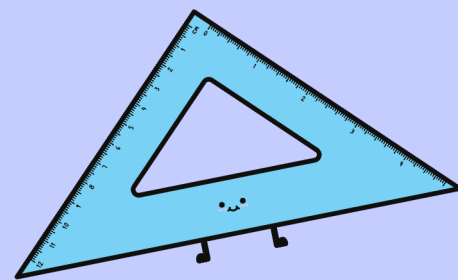
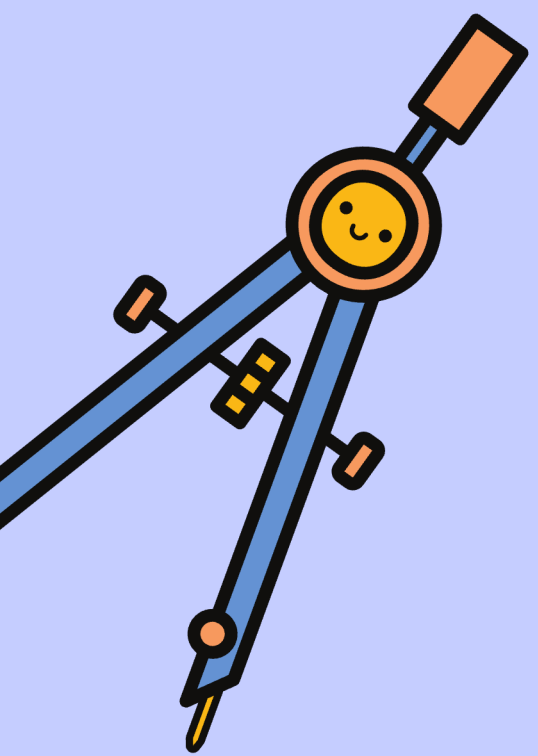


Answer 10

PREVIEW

1. Bonobos have the most with 5.





PREVIEW

Well Done!