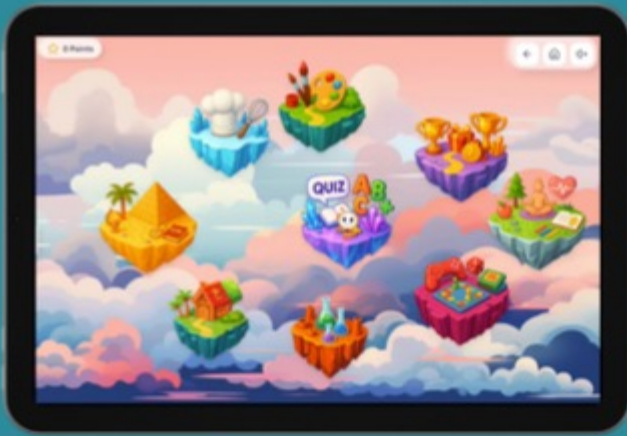


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Data - Year 2

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Worksheet: Playground Picture Graph

Worksheet: Snack Shop Decision

Worksheet: Plan Your Own Survey

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DATA DETECTIVE STEPS

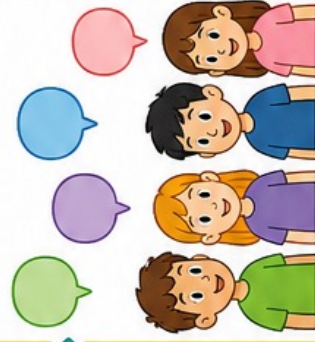


Data is information we collect to answer a question.

1. Ask a clear question.



2. Collect responses.



3. Record responses with tally marks.

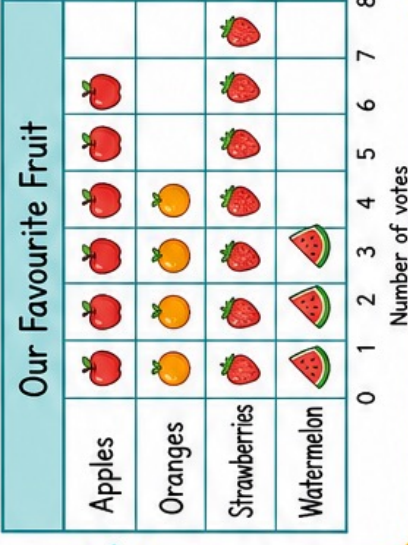


4. Organise in a table.

Fruit	Tally

5.

Display and read a picture graph.



Most



Least



Altogether



What do you notice?





DATA QUESTION SORT CARDS



Cut out the cards

Sort each question.



Good data questions

Needs fixing



What fruit
do you like best?



How do you
get to school?



Which sport
should we play
first?



What is your
favourite rainy
day game?



Do you like fun?



What is best?



Why?



Can you see?



What colour?



Which book cover
do you prefer?



What pet would
you choose?



Where should we
hold class lunch?





TALLY TABLE BUILDER

Pick one topic card. Ask 10 classmates to record each answer with tally marks.

Topic cards

Class fruit



Playground game



Story time book



Brain break



Art colour



Maths tool



Tally

Choice

review



DATA DASH



Roll and move. Read the space. Say your answer.

START

QUESTION 	TALLY 	MOST 	LEAST 	TOTAL 	GRAPH 	SYMBOL 	FACT
--------------	-----------	----------	-----------	-----------	-----------	------------	----------

FACT 	SYMBOL 	GRAPH 	TOTAL 	LEAST 	MOST 	TALLY 	QUESTION
----------	------------	-----------	-----------	-----------	----------	-----------	--------------

MOST 	TOTAL 	FACT 	SYMBOL 	GRAPH 	TALLY 	LEAST 	QUESTION
----------	-----------	----------	------------	-----------	-----------	-----------	--------------

You need

die
red
yellow
green
blue

TALLY 	QUESTION 	TOTAL 	MOST 	FACT 	SYMBOL 	GRAPH
-----------	--------------	-----------	----------	----------	------------	-----------

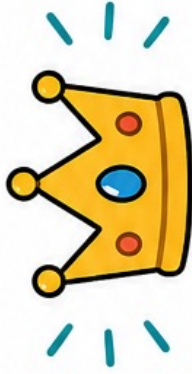
FINISH



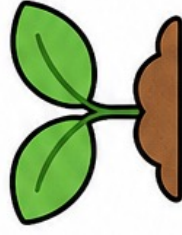
GRAPH TALK CARDS

Use these cards with a picture graph.

Which has
the most?



Which has
the least?



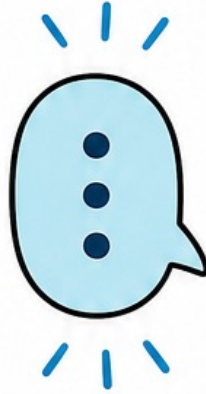
How many
altogether?



How many
more?



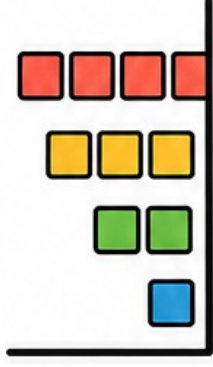
Tell one
data fact.



Make a
tally table.



Draw
the graph.



Ask a new
question.



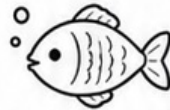
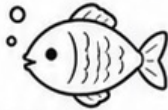
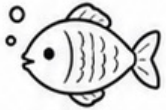


PET SURVEY TALLY



Name: _____

Lena asked: Which class pet would you choose?
Count the pictures. Record the data.



Preview

Choice	Tally	Number
Dog		
Cat		
Fish		
Bird		
Rabbit		

Answer the questions.

1. Which pet has the most votes? _____
2. Which pet has the least votes? _____
3. How many votes altogether? _____
4. How many more birds than fish? _____
5. Write one data fact. _____

LUNCHBOX PICTURE GRAPH

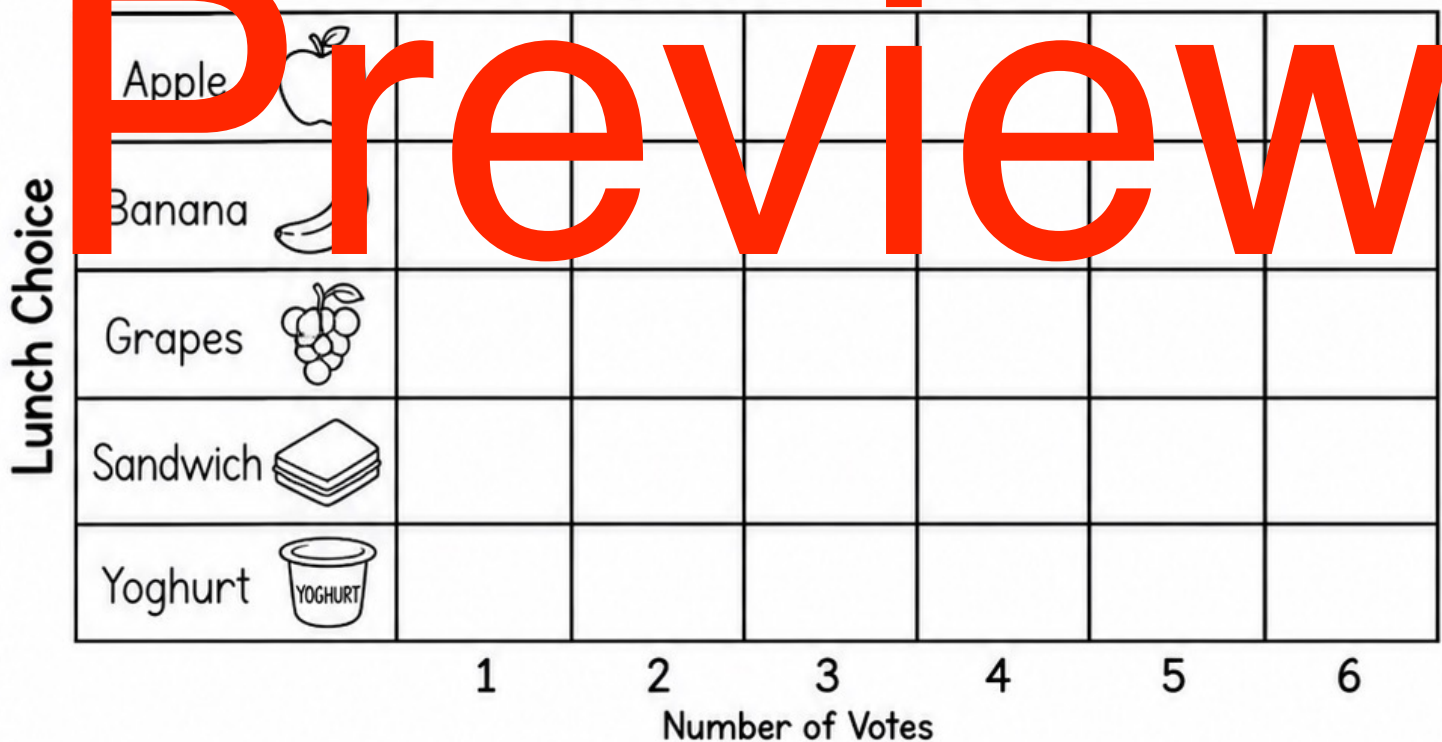


Name: _____

Use the tally table. Draw one symbol for each vote.

Lunch choice	Tally
Apple	
Banana	
Grapes	
Sandwich	
Yoghurt	

Favourite Lunchbox Foods



Answer the questions.

- Which choice has the most votes? _____
- How many students voted for banana? _____
- How many fewer votes did yoghurt get than sandwich? _____
- How many votes altogether? _____



LIBRARY PICTURE GRAPH

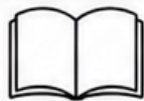
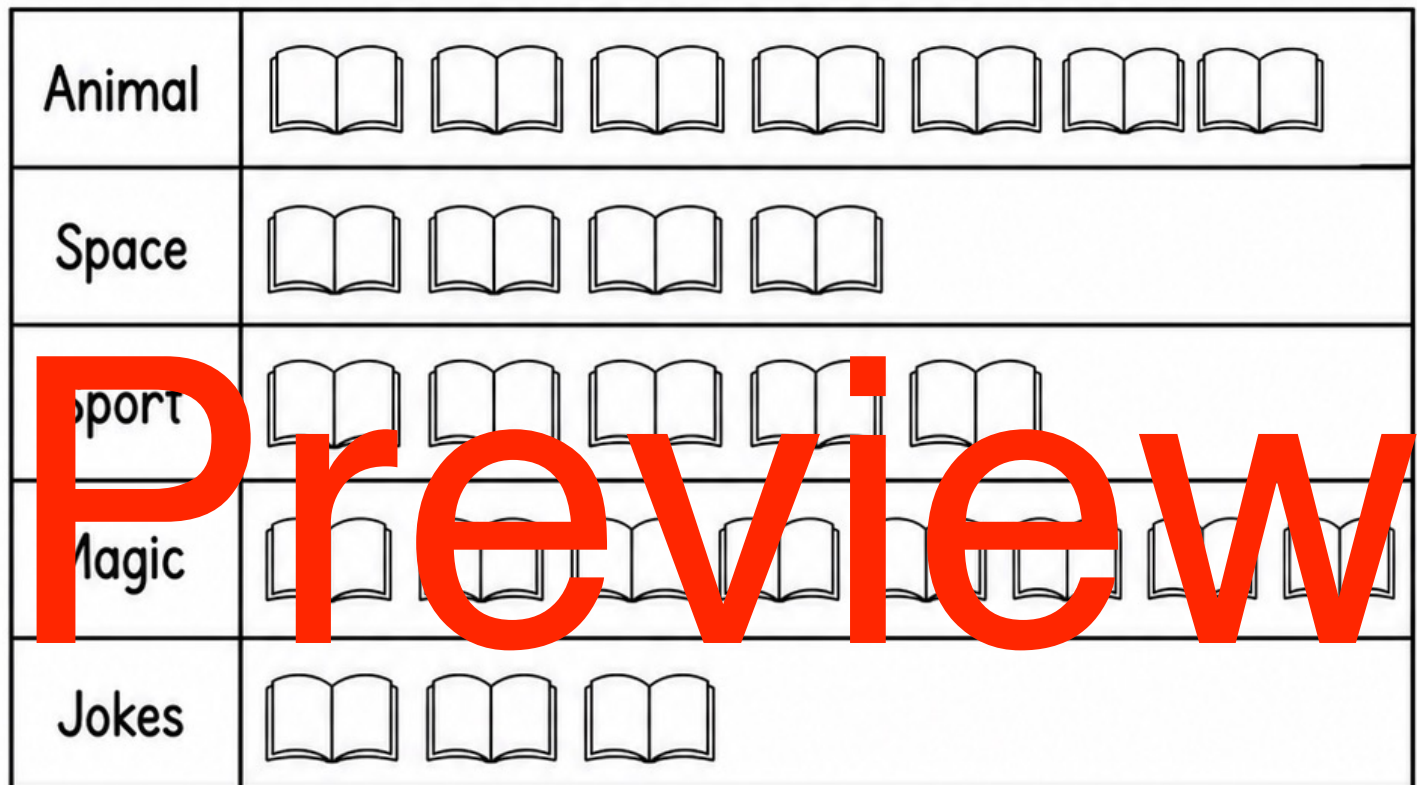


Name: _____

Year 2 voted for a read-aloud book.

Read the picture graph.

Favourite Read-Aloud Books



Each book symbol = 1 vote

Answer the questions.

1. Which book type has the most votes? _____
2. Which book type has the least votes? _____
3. How many students voted for Space? _____
4. How many more votes did Magic get than Jokes? _____
5. How many votes altogether? _____

PLAYGROUND PICTURE GRAPH

Name: _____

Students voted for their favourite playground activity.
Read the picture graph.



Favourite Playground Activities



Each symbol = 1 vote

Answer the questions.

- Which activity has the most votes? _____
- Which activity has the least votes? _____
- How many students voted for Slide? _____
- How many more votes did Swings get than Sandpit? _____
- Which activities have 5 or more votes? _____



SNACK SHOP DECISION

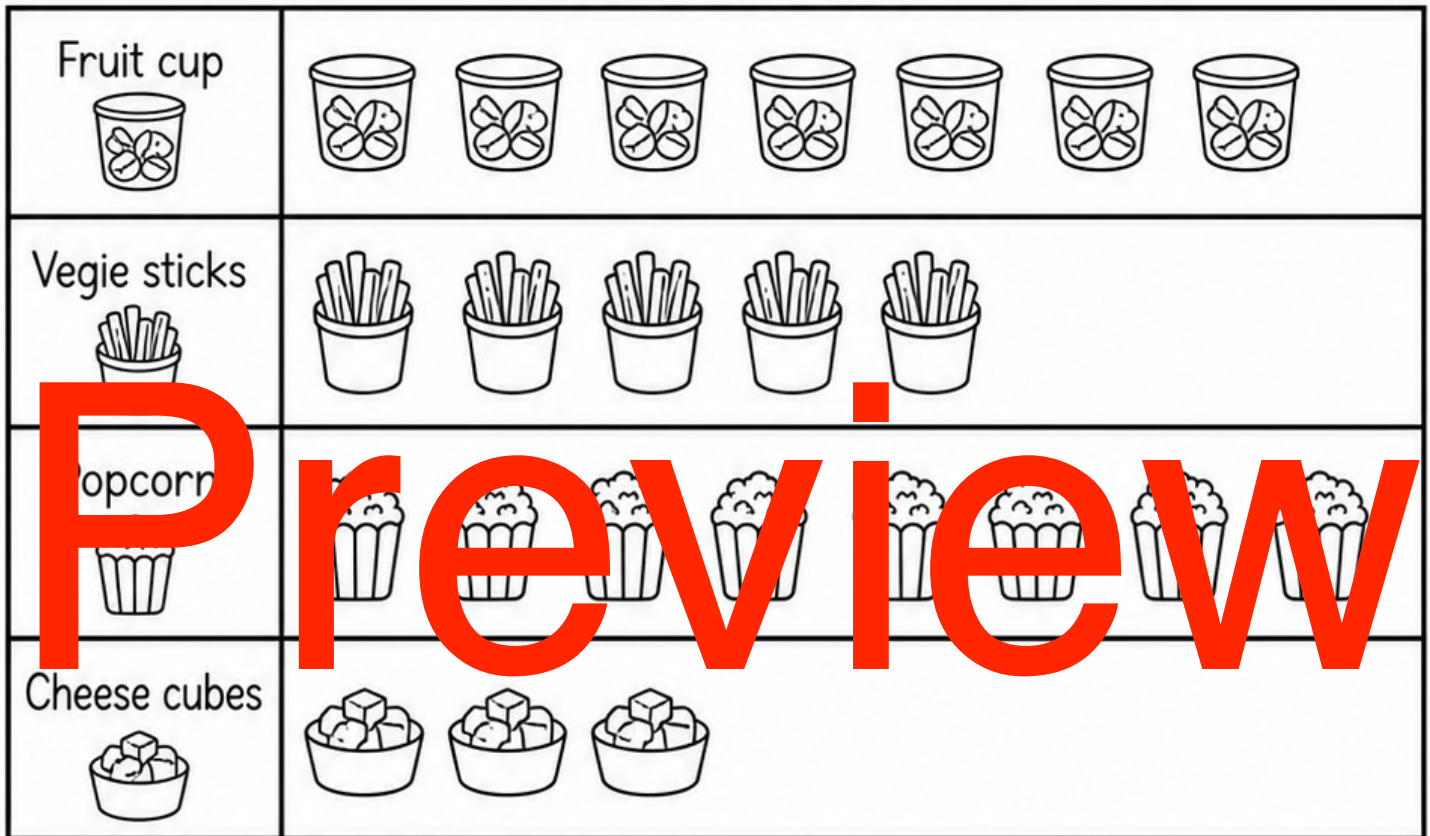


Name: _____

The canteen asked Year 2 which snack to sell first.

Read the picture graph.

Snack Votes



Each symbol = 1 vote

Answer the questions.

1. Which snack should the canteen sell first? _____
2. How many students voted for Fruit cup? _____
3. Which snack has the fewest votes? _____
4. How many more votes did Popcorn get than Cheese cubes? _____
5. Write a data reason for your choice. _____



PLAN YOUR OWN SURVEY



Name: _____

1. Write your data question.

My question: _____



2. Write four choices.

Choice	Tally	Number



3. Ask 10 classmates. Record their answers.

4. Draw your picture graph.

Graph title: _____



Each symbol = 1 vote

5. Write one thing your data shows.





DATA CHECK-IN



Name: _____

The garden club asked: Which new garden space should we make?
Use the tally table. Complete the picture graph. Answer the questions.

Garden choice	Tally
 Flower bed	
 Vegetable patch	
 Herb pots	
 Butterfly garden	

Garden Club Votes

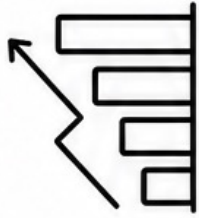


Each symbol = 1 vote

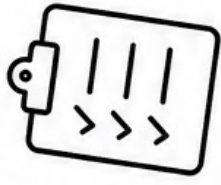
 Flower bed								
 Vegetable patch								
 Herb pots								
 Butterfly garden								

Answer the questions.

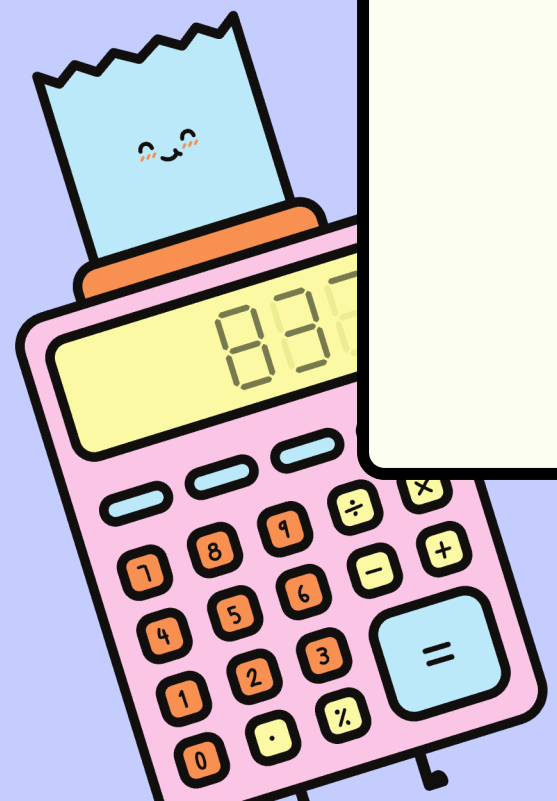
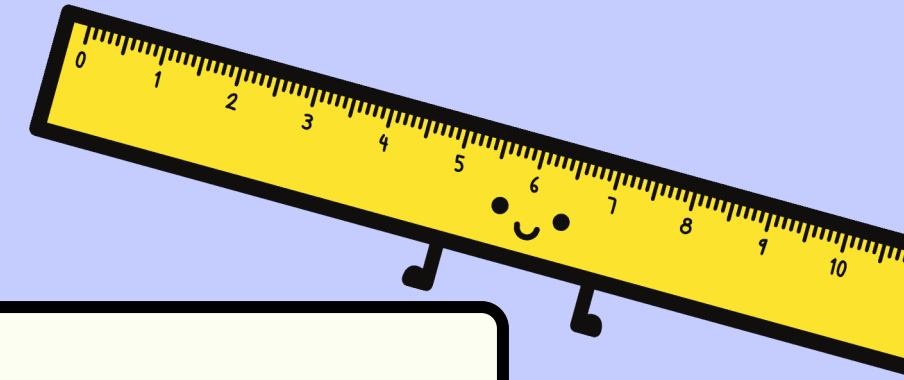
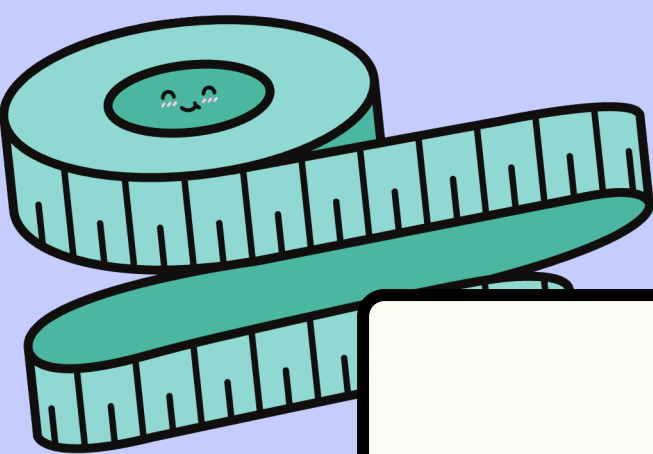
- Which choice has the most votes? _____
- Which choice has the least votes? _____
- How many votes altogether? _____
- How many more votes did Vegetable patch get than Herb pots? _____
- What should the garden club make first? Use data to explain.



DATA - YEAR 2 RUBRIC



	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Ask and collect data	Needs help asking a clear question and collecting data.	Some correct questions and data collected with support.	Mostly correct questions and data collected independently.	Accurate and clear questions and data collected independently.	Explains fully how and why the data was collected.
Record with tally marks	Needs help using tally marks.	Some correct tally marks but with mistakes.	Mostly correct tally marks.	Accurate and clear tally marks.	Explains fully how tally marks were used.
Make a picture graph	Needs help making a picture graph.	Some correct parts of the picture graph.	Mostly correct picture graph with guidance.	Accurate and clear picture graph.	Explains fully choices made in the picture graph.
Read and explain data	Needs help reading or explaining data.	Some correct answers and explanations.	Mostly correct answers and explanations.	Accurate and clear answers and explanations.	Explains fully and uses data to justify answers.



Preview

Data - Year 2



Learning Goal Preview

We can collect, organise, display and interpret data.



What Is Data?

Preview

Data is information we collect to answer a question.
We can collect data by asking, observing or measuring.



Ask A Data Question Preview

A data question has clear choices.
It helps us collect useful information.



Clear Or Unclear?

Preview

Clear: Which fruit do you like best?

Unclear: What is best?

A clear question is easier to answer.



Collect Responses

Preview

Ask one person at a time.

Record each answer carefully.

Count every response once.



Tally Marks Preview

Tally marks help us keep count.

Four straight marks and one diagonal mark make five.



Organise In A Table

Preview

A table keeps choices and counts together.
Tables help us check our data before we graph it.



Picture Graphs

Preview

A picture graph uses symbols or images to show data.

Each symbol must stand for the same amount.



Graph Features Preview

A clear graph needs a title, labels and neat equal spaces.

The symbols should be easy to count.



Read The Graph Preview

Look for the choice with the most.

Look for the choice with the least.

Count altogether when you need the total.



Compare Data Preview

We can ask: How many more?

We can ask: How many fewer?

Use the counts to explain your thinking.



Horizontal Graphs

Preview

Picture graphs can go across the page.

Read the row label, then count the symbols in that row.



Data Facts Preview

A data fact is something true shown by the data.

Example: Popcorn had more votes than cheese cubes.



Class Investigation Preview

Ask a clear question.

Collect responses.

Make a tally table.

Draw and read your picture graph.



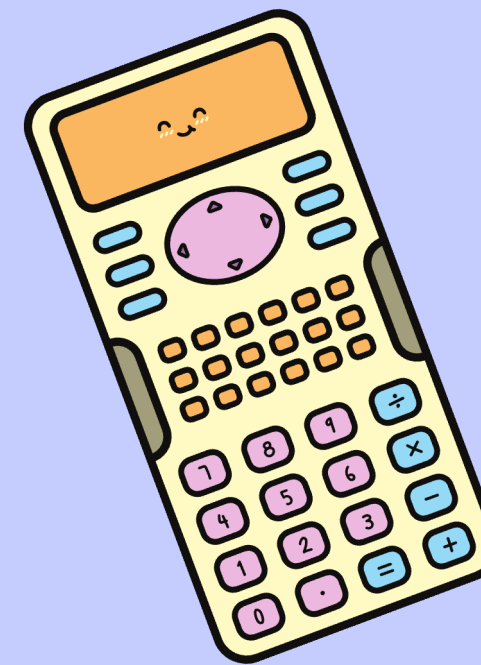
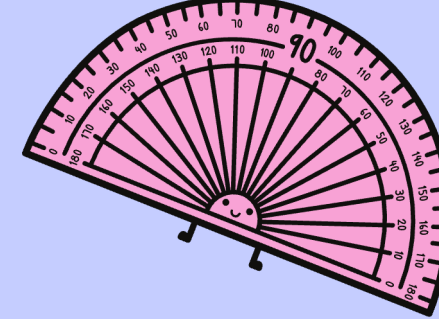
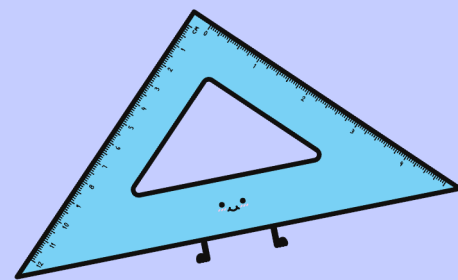
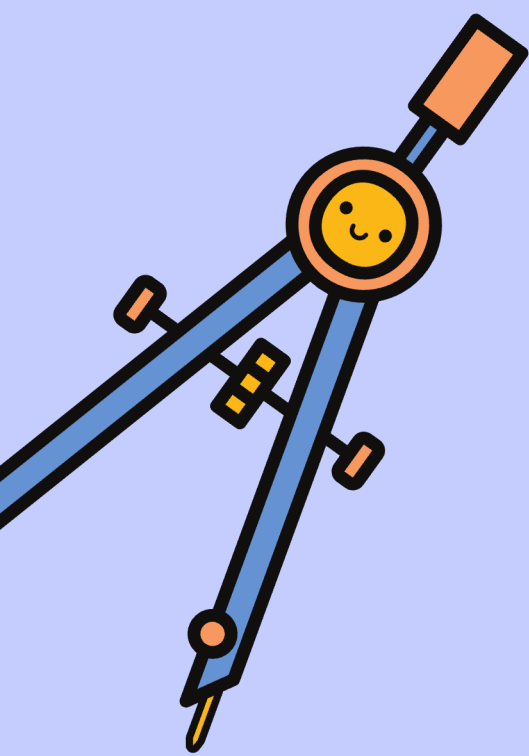
Review Preview

Can you ask a data question?

Can you record tallies?

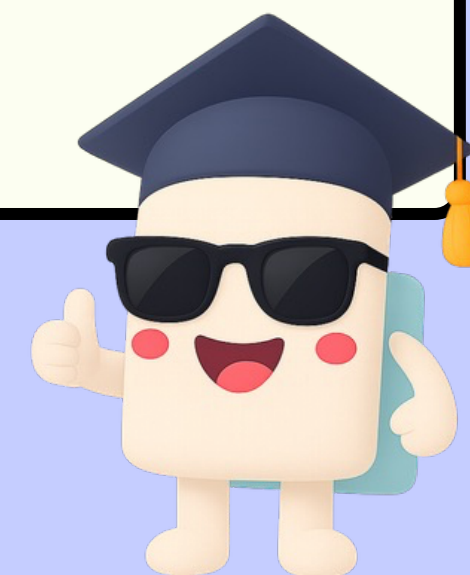
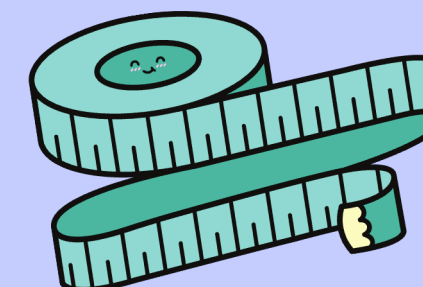
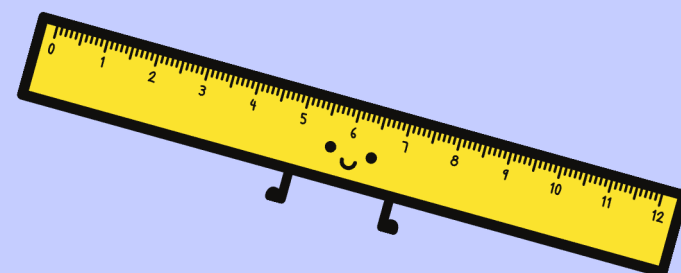
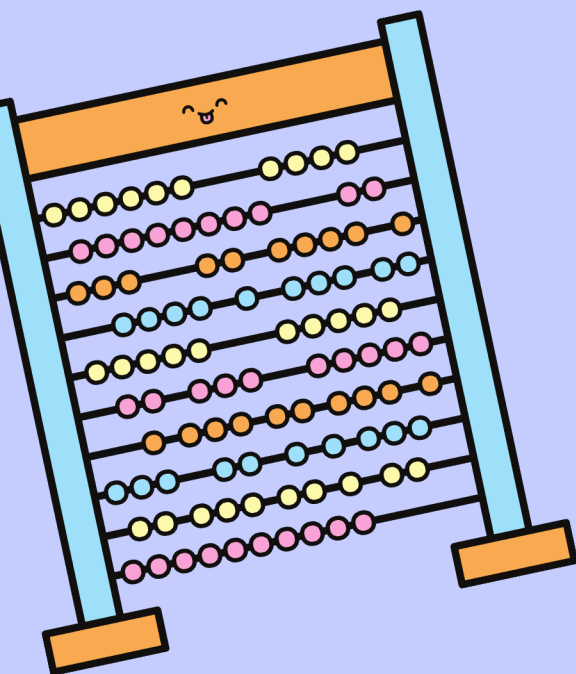
Can you read a picture graph and explain what it shows?

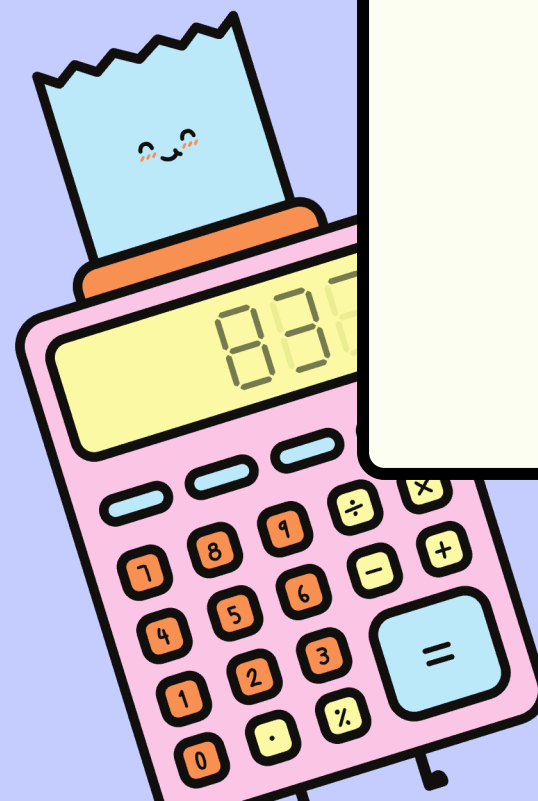
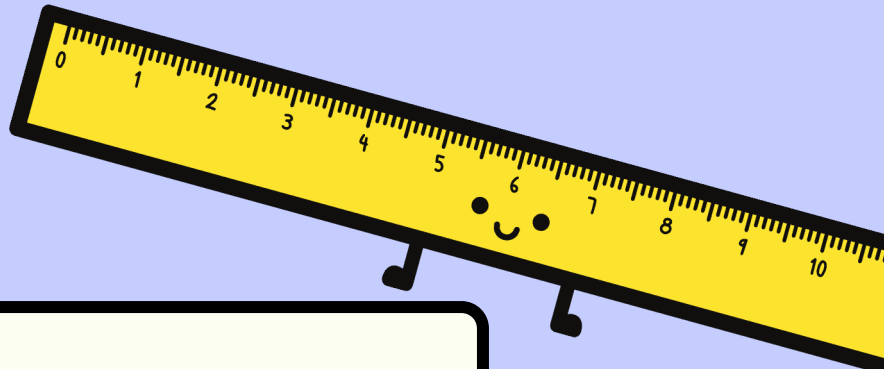
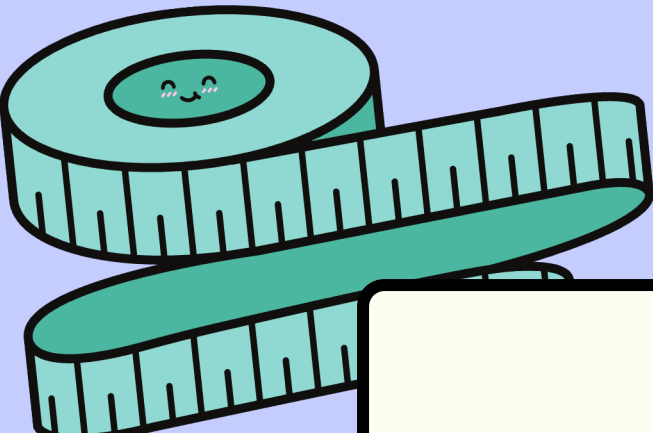




Preview

Well Done!





Preview

Data - Year 2 Quiz



Question 1

Preview

Which sentence best describes data?

- A. a drawing with no labels
- B. information collected to answer a question
- C. a number sentence
- D. a shape pattern



Answer I Preview

B. information collected to answer a question



Question 2

Preview

True or false?

Tally marks can help us record responses quickly.



Answer 2

Preview

True.



Question 3

Preview

Name one way we can collect data.



Answer 3

Preview

Example: ask a question.

Other correct answers include observing or measuring.



Question 4

Preview

Which question is clearest for a survey?

- A. What is best?
- B. Do you like things?
- C. Which fruit do you like best?
- D. Why?



Answer 4

Preview

C. Which fruit do you like best?



Question 5

Preview

Fruit votes: Apple 6, Banana 4, Orange 8.

Which fruit has the most votes?



Answer 5

Preview

Orange.



Question 6

Preview

True or false?

In a picture graph, each symbol should stand for the same amount.



Answer 6

Preview

True.



Question 7

Preview

What should a clear picture graph have?

- A. a title and labels
- B. only pictures
- C. no spaces
- D. hidden numbers



Answer 7

Preview

A. a title and labels



Question 8

Preview

Pet votes: Fish 5, Cat 3, Dog 7.

How many votes are there altogether?



Answer 8

Preview

15 votes.



Question 9

Preview

True or false?

If two choices have the same number of votes, they are equal.



Answer 9

Preview

True.



Question 10

Preview

Colour votes. Red 3, Blue 7, Green 5.

Which colour has the least votes?

- A. Red
- B. Blue
- C. Green
- D. Yellow

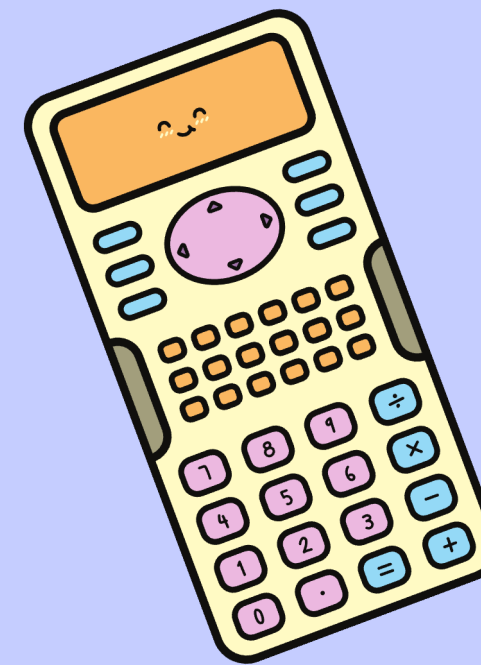
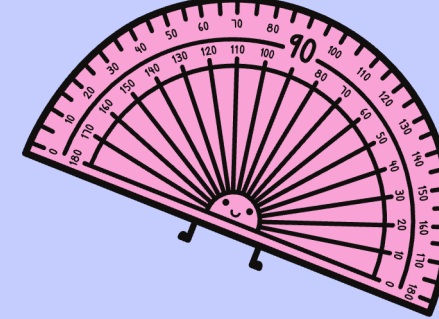
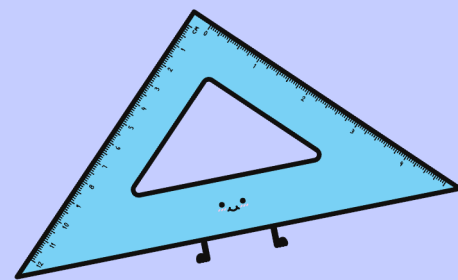
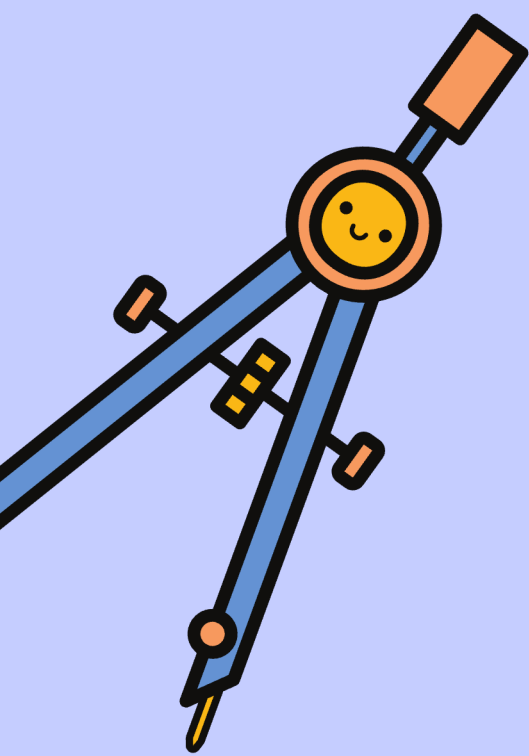


Answer 10

Preview

A. Red





Preview

Well Done!

