

CLASS 4 · MATHS · CHAPTER 14

Data Handling

LEARN the ideas step by step, then CHECK with every question and activity from the textbook chapter

12

Learn slides

16

Exercise questions

5Ask, record, count, show,
solve

Ready-to-teach smartboard lessons, one click at a time.

How this deck runs

1

Learn

Click to reveal each idea.
Pause and ask the question in the notes before you click.

2

Try it

Quick sorts and "which type?" slides: let the class call out answers before each click.

3

Check

Every textbook question and activity. Students answer first, then click to reveal.

4

Discuss

Notes give a discussion question, a common mistake and words to listen for.

Let children explain their thinking in their own words.

LEARN

Data Handling

Ask a question · record · count · table · pictograph

Which subject is liked most?

Four friends talk about what they like. Anjali and Rohan want to ask the whole class.

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Which subject is liked most?

Four friends talk about what they like. Anjali and Rohan want to ask the whole class.

Different likes

Some like Maths and Arts,
some Languages, some
sports and the environment.

Which subject is liked most?

Four friends talk about what they like. Anjali and Rohan want to ask the whole class.

Different likes

Some like Maths and Arts, some Languages, some sports and the environment.

The plan

Find out which subject the class likes the most.

Which subject is liked most?

Four friends talk about what they like. Anjali and Rohan want to ask the whole class.

Different likes

Some like Maths and Arts, some Languages, some sports and the environment.

The plan

Find out which subject the class likes the most.

First step

Make one clear question to ask everyone.

Two questions, two kinds of answers

Which question finds the most liked subject?

Rohan asks

Anjali asks

Two questions, two kinds of answers

Which question finds the most liked subject?

Rohan asks

Which subjects do you like?

Anjali asks

Which subject do you like the most?

Two questions, two kinds of answers

Which question finds the most liked subject?

Rohan asks

Which subjects do you like?

Children give 2 or 3 subjects each

Anjali asks

Which subject do you like the most?

Each child gives exactly one subject

Two questions, two kinds of answers

Which question finds the most liked subject?

Rohan asks

Which subjects do you like?

Children give 2 or 3 subjects each

Hard to say which is the favourite

Anjali asks

Which subject do you like the most?

Each child gives exactly one subject

Easy to count and compare

Tally of the 45 answers

Anjali records one letter for each child: M, L, T, A or P.E. Counting gives $10 + 8 + 7 + 11 + 9 = 45$ children.

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Tally of the 45 answers

Anjali records one letter for each child: M, L, T, A or P.E. Counting gives $10 + 8 + 7 + 11 + 9 = 45$ children.

Mathematics (M)



10

Tally of the 45 answers

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Mathematics (M)



10

Languages (L)



8

Tally of the 45 answers

Anjali records one letter for each child: M, L, T, A or P.E. Counting gives $10 + 8 + 7 + 11 + 9 = 45$ children.

Mathematics (M)



10

Languages (L)



8

World Around Us (T)



7

Tally of the 45 answers

Anjali records one letter for each child: M, L, T, A or P.E. Counting gives $10 + 8 + 7 + 11 + 9 = 45$ children.

Mathematics (M)



10

Languages (L)



8

World Around Us (T)



7

Physical Ed. (P.E.)



11

Tally of the 45 answers

Anjali records one letter for each child: M, L, T, A or P.E. Counting gives $10 + 8 + 7 + 11 + 9 = 45$ children.

Mathematics (M)



10

Languages (L)



8

World Around Us (T)



7

Physical Ed. (P.E.)



11

Arts (A)



9

The count table

The counts go into a table with one row for each subject (page 205).

Subject	No. of children
---------	-----------------

The count table

The counts go into a table with one row for each subject (page 205).

Subject	No. of children
Mathematics (M)	10

The count table

The counts go into a table with one row for each subject (page 205).

Subject	No. of children
Mathematics (M)	10
Languages (L)	8

The count table

The counts go into a table with one row for each subject (page 205).

Subject	No. of children
Mathematics (M)	10
Languages (L)	8
The World Around Us (T)	7

The count table

The counts go into a table with one row for each subject (page 205).

Subject	No. of children
Mathematics (M)	10
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The World Around Us (T)	7
Physical Education (P.E.)	11

The count table

The counts go into a table with one row for each subject (page 205).

Subject	No. of children
Mathematics (M)	10
Languages (L)	8
The World Around Us (T)	7
Physical Education (P.E.)	11
Arts (A)	9

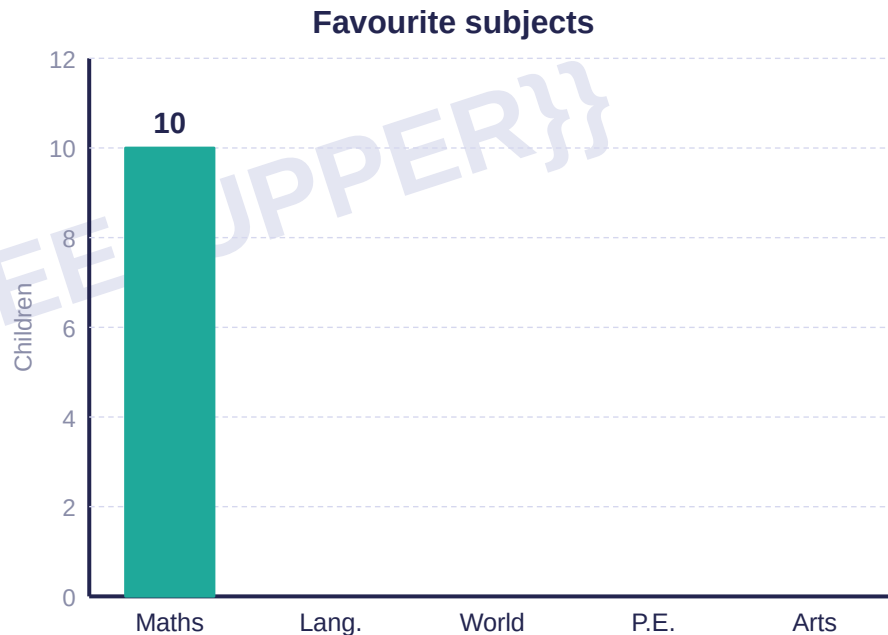
A bar picture of the table

The longest bar is the most liked subject. The shortest bar is the least liked.



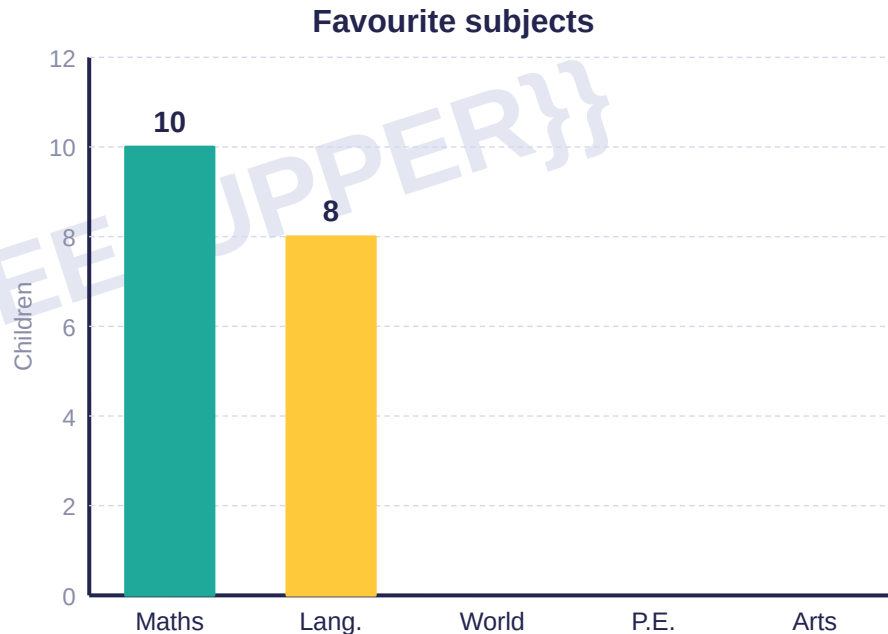
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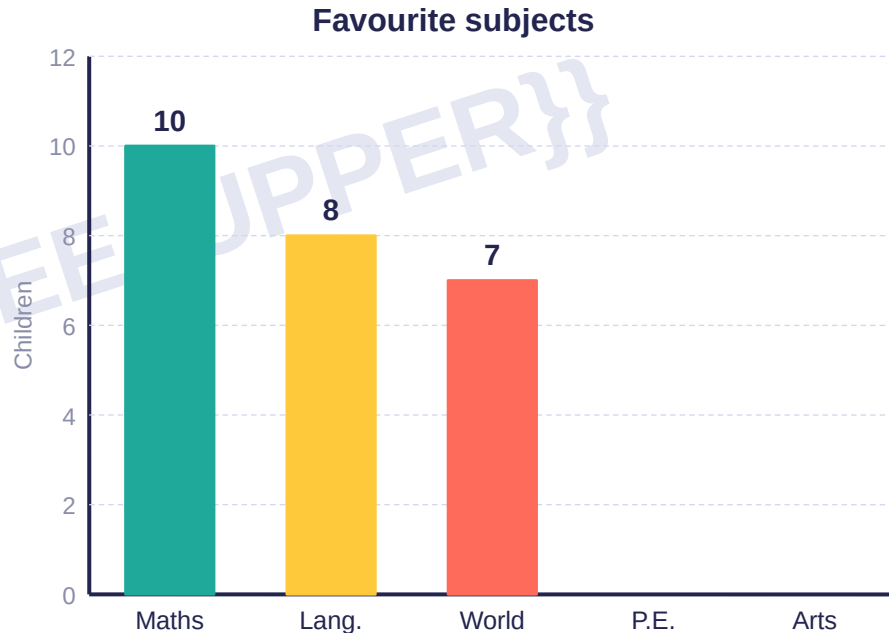
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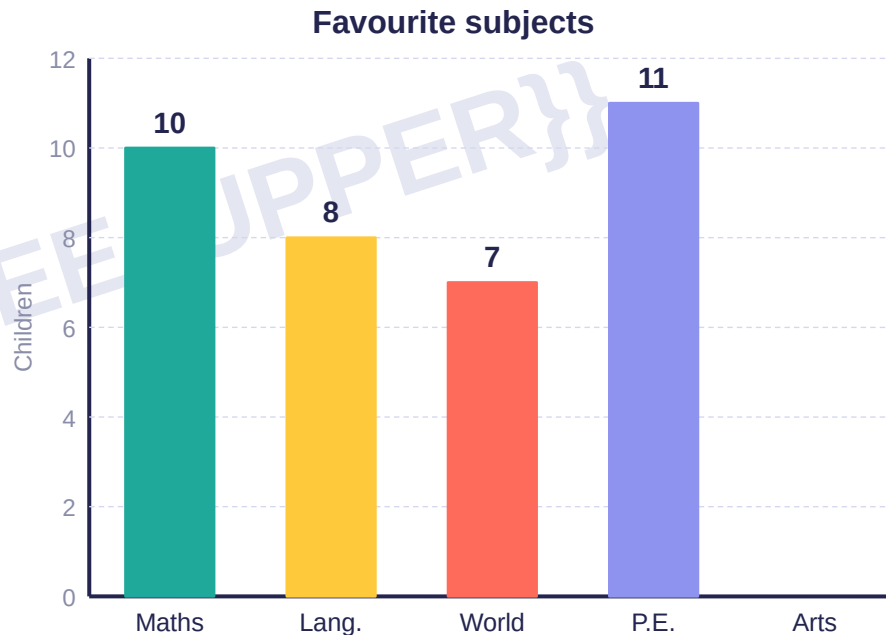
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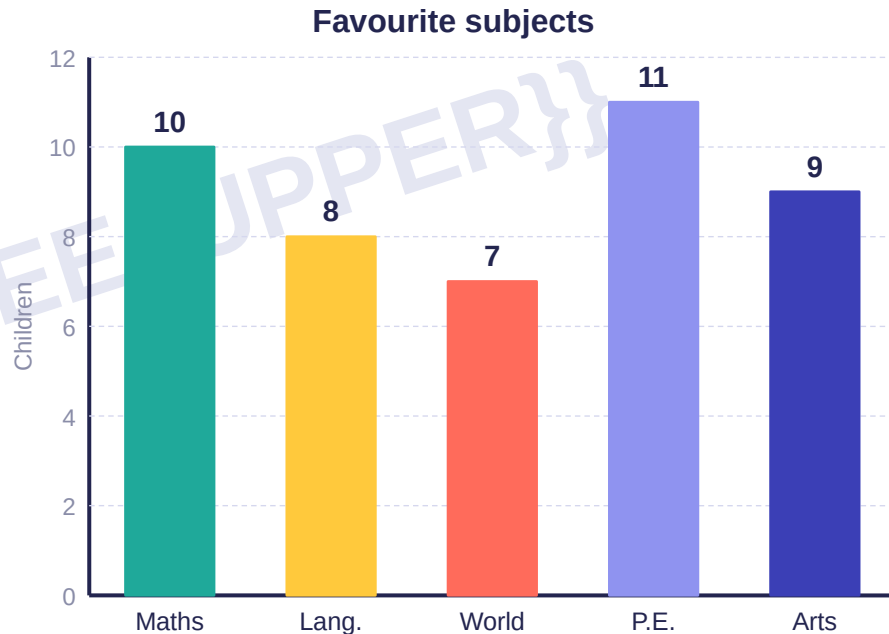
A bar picture of the table

The longest bar is the most liked subject. The shortest bar is the least liked.



A bar picture of the table

The longest bar is the most liked subject. The shortest bar is the least liked.



A list or a table?

Two ways to show the same information (page 205).

1. The list of letters

2. The table

A list or a table?

Two ways to show the same information (page 205).

1. The list of letters

Letters in the order children answered

2. The table

One row for each subject

A list or a table?

Two ways to show the same information (page 205).

1. The list of letters

Letters in the order children answered

You must count every time

2. The table

One row for each subject

The counts are ready to read

A list or a table?

Two ways to show the same information (page 205).

1. The list of letters

Letters in the order children answered

You must count every time

Hard to find the most or least

2. The table

One row for each subject

The counts are ready to read

Easy to find the most and the least

Colourful golas

At lunch break children rush to eat a gola of their favourite colour. Rohan and Anjali each keep a record.

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Colourful golas

At lunch break children rush to eat a gola of their favourite colour. Rohan and Anjali each keep a record.

Anjali

She draws one gola for each gola eaten: a pictograph.

Colourful golas

At lunch break children rush to eat a gola of their favourite colour. Rohan and Anjali each keep a record.

Anjali

She draws one gola for each gola eaten: a pictograph.

Rohan

He draws one person for each child: boys and girls can be told apart.

Colourful golas

At lunch break children rush to eat a gola of their favourite colour. Rohan and Anjali each keep a record.

Anjali

She draws one gola for each gola eaten: a pictograph.

Rohan

He draws one person for each child: boys and girls can be told apart.

Why record?

They want to buy the colour that most children eat.

What the golas show

Counted from the two records (pages 206 and 207).

Colour

Golas

Boys

Girls

What the golas show

Counted from the two records (pages 206 and 207).

Colour	Golas	Boys	Girls
Red	8	4	4

What the golas show

Counted from the two records (pages 206 and 207).

Colour	Golas	Boys	Girls
Red	8	4	4
Blue	5	4	1

What the golas show

Counted from the two records (pages 206 and 207).

Colour	Golas	Boys	Girls
Red	8	4	4
Blue	5	4	1
Orange	7	3	4

What the golas show

Counted from the two records (pages 206 and 207).

Colour	Golas	Boys	Girls
Red	8	4	4
Blue	5	4	1
Orange	7	3	4
Yellow	10	6	4

Chess or Cricket

A class survey with four groups (page 207).

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Chess or Cricket

A class survey with four groups (page 207).

Chess but not Cricket

Children who play only chess.

Chess or Cricket

A class survey with four groups (page 207).

Chess but not Cricket

Children who play only chess.

Cricket but not Chess

Children who play only cricket.

Chess or Cricket

A class survey with four groups (page 207).

Chess but not Cricket

Children who play only chess.

Cricket but not Chess

Children who play only cricket.

Both

Children who play chess and cricket.

Chess or Cricket

A class survey with four groups (page 207).

Chess but not Cricket

Children who play only chess.

Cricket but not Chess

Children who play only cricket.

Both

Children who play chess and cricket.

Neither

Children who play neither game.

Bal Mela pictographs

Two stalls at the Bal Mela record sales for 3 days (page 208).

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Bal Mela pictographs

Two stalls at the Bal Mela record sales for 3 days (page 208).

Anjali: Fruit Chaat

One picture is one plate of fruit chaat. Day 1 has 7, Day 2 has 12, Day 3 has 9.

Bal Mela pictographs

Two stalls at the Bal Mela record sales for 3 days (page 208).

Anjali: Fruit Chaat

One picture is one plate of fruit chaat. Day 1 has 7, Day 2 has 12, Day 3 has 9.

Rohan: Sandwiches

One picture is one sandwich. Day 1 has 12, Day 2 has 16, Day 3 has 18.

Bal Mela totals

Adding both stalls for each day.

Day	Chaats	Sandwiches	Total sales
-----	--------	------------	-------------

Bal Mela totals

Adding both stalls for each day.

Day	Chaats	Sandwiches	Total sales
Day 1	7	12	19

Bal Mela totals

Adding both stalls for each day.

Day	Chaats	Sandwiches	Total sales
Day 1	7	12	19
Day 2	12	16	28

Bal Mela totals

Adding both stalls for each day.

Day	Chaats	Sandwiches	Total sales
Day 1	7	12	19
Day 2	12	16	28
Day 3	9	18	27

Bal Mela totals

Adding both stalls for each day.

Day	Chaats	Sandwiches	Total sales
Day 1	7	12	19
Day 2	12	16	28
Day 3	9	18	27
All 3 days	28	46	74

Points to remember

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Points to remember

- 1 Ask a clear question that gives one answer from each child.

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Points to remember

- 1 Ask a clear question that gives one answer from each child.
- 2 Record each answer, then count and put the counts in a table.

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- 3 A table or a pictograph makes the most and the least easy to see.

Points to remember

- 1 Ask a clear question that gives one answer from each child.
- 2 Record each answer, then count and put the counts in a table.
- 3 A table or a pictograph makes the most and the least easy to see.
- 4 Pictures can stand for items, and different records answer different questions.

CHECK

Every task from the chapter

Every task from the textbook chapter, in book order, with a worked answer. Open tasks show what a good answer includes.

Which question is the most appropriate for finding the most liked subject?

a) Rohan: Which subjects do you like?

b) Anjali: Which subject do you like the most?

Which question is the most appropriate for finding the most liked subject?

a) Rohan: Which subjects do you like?

b) Anjali: Which subject do you like the most?

Why: Each child names one subject, so the answers can be counted to find the most liked subject. Rohan's question gives 2 or 3 subjects each.

1 Children who like Mathematics most: ____.

2 Children who like Language most: ____.

3 Children who like The World Around Us most: ____.

4 Children who like Physical Education most: ____.

5 Children who like Arts most: ____.

1 Children who like Mathematics most: ____.

10

2 Children who like Language most: ____.

3 Children who like The World Around Us most: ____.

4 Children who like Physical Education most: ____.

5 Children who like Arts most: ____.

1 Children who like Mathematics most: ____.

10

2 Children who like Language most: ____.

8

3 Children who like The World Around Us most: ____.

4 Children who like Physical Education most: ____.

5 Children who like Arts most: ____.

1 Children who like Mathematics most: ____.

10

2 Children who like Language most: ____.

8

3 Children who like The World Around Us most: ____.

7

4 Children who like Physical Education most: ____.

5 Children who like Arts most: ____.

1 Children who like Mathematics most: ____.

10

2 Children who like Language most: ____.

8

3 Children who like The World Around Us most: ____.

7

4 Children who like Physical Education most: ____.

11

5 Children who like Arts most: ____.

1 Children who like Mathematics most: ____.

10

2 Children who like Language most: ____.

8

3 Children who like The World Around Us most: ____.

7

4 Children who like Physical Education most: ____.

11

5 Children who like Arts most: ____.

9

Counts from the 45 answers

Subject	No. of children
Mathematics (M)	
Languages (L)	
The World Around Us (T)	
Physical Education (P.E.)	
Arts (A)	

Counts from the 45 answers

Subject	No. of children
Mathematics (M)	10
Languages (L)	
The World Around Us (T)	
Physical Education (P.E.)	
Arts (A)	

Counts from the 45 answers

Subject	No. of children
Mathematics (M)	10
Languages (L)	8
The World Around Us (T)	
Physical Education (P.E.)	
Arts (A)	

Counts from the 45 answers

Subject	No. of children
Mathematics (M)	10
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Counts from the 45 answers

Subject	No. of children
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Physical Education (P.E.)	11
Arts (A)	

Counts from the 45 answers

Subject	No. of children
Mathematics (M)	10
Languages (L)	8
The World Around Us (T)	7
Physical Education (P.E.)	11
Arts (A)	9

1 The most common favourite subject is ____.

2 The least common favourite subject is ____.

1 The most common favourite subject is ____.

P.E. (11)

2 The least common favourite subject is ____.

1 The most common favourite subject is ____.

P.E. (11)

2 The least common favourite subject is ____.

The World Around
Us (7)

Which way of displaying the information is easier to understand, and why?

30s

Think and write your answer first. Then share with your partner.

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Which way of displaying the information is easier to understand, and why?

30s

Think and write your answer first. Then share with your partner.

Model answer

The table (way 2). The counts are already done, so the most and least liked subjects can be read at once. The list of letters must be counted every time.

Which way of displaying the information is easier to understand, and why?

30s

Think and write your answer first. Then share with your partner.

Model answer

The table (way 2). The counts are already done, so the most and least liked subjects can be read at once. The list of letters must be counted every time.

Listen for:

the table

counts ready

Look at the two records and colour the line drawings of the golas appropriately.

30s

Think and write your answer first. Then share with your partner.

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Look at the two records and colour the line drawings of the golas appropriately.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good result has the gola drawings coloured red, blue, orange and yellow, matching the four colours in the records.

Look at the two records and colour the line drawings of the golas appropriately.

30s

Think and write your answer first. Then share with your partner.

Model answer

A good result has the gola drawings coloured red, blue, orange and yellow, matching the four colours in the records.

Listen for:

red, blue

orange, yellow

1 The colour eaten the most is ____.

2 The colour eaten the least is ____.

1 The colour eaten the most is ____.

yellow (10)

2 The colour eaten the least is ____.

1 The colour eaten the most is ____.

yellow (10)

2 The colour eaten the least is ____.

blue (5)

How do you know which gola colour is eaten the most and the least?

30s

Think and write your answer first. Then share with your partner.

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How do you know which gola colour is eaten the most and the least?

30s

Think and write your answer first. Then share with your partner.

Model answer

Count the pictures in each row. Yellow has the longest row (10) and blue has the shortest (5). A longer row means more children.

How do you know which gola colour is eaten the most and the least?

30s

Think and write your answer first. Then share with your partner.

Model answer

Count the pictures in each row. Yellow has the longest row (10) and blue has the shortest (5). A longer row means more children.

Listen for:

count each row

longest, shortest

1 Anjali and Rohan would have bought the ____ gola.

1 Anjali and Rohan would have bought the ____ gola.

yellow

1 The colour boys ate the most is ____.

2 Girls ate most (a tie, 4 each): ____.

1 The colour boys ate the most is ____.

yellow (6)

2 Girls ate most (a tie, 4 each): ____.

1 The colour boys ate the most is ____.

yellow (6)

2 Girls ate most (a tie, 4 each): ____.

red, orange, yellow

Which way of showing the data did you use to answer these questions, and why?

30s

Think and write your answer first. Then share with your partner.

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Which way of showing the data did you use to answer these questions, and why?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer: Anjali's golas for counting colours, Rohan's people for boys and girls, because only his shows who ate each colour.

Which way of showing the data did you use to answer these questions, and why?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good answer: Anjali's golas for counting colours, Rohan's people for boys and girls, because only his shows who ate each colour.

Listen for:

says which record

gives a reason

Find out how many classmates play only chess, only cricket, both or neither. Fill the table for girls and boys.

30s

Think and write your answer first. Then share with your partner.

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Find out how many classmates play only chess, only cricket, both or neither. Fill the table for girls and boys.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good result asks each child once, puts every child in exactly one of the four rows, and the counts add up to the class total.

Find out how many classmates play only chess, only cricket, both or neither. Fill the table for girls and boys.

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary. A good result asks each child once, puts every child in exactly one of the four rows, and the counts add up to the class total.

Listen for:

one row each

adds to total

From your class data: Who plays chess the most (boys or girls)? Who plays cricket the most? How many play both?

30s

Think and write your answer first. Then share with your partner.

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From your class data: Who plays chess the most (boys or girls)? Who plays cricket the most? How many play both?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary with the class. Add the Chess-only and Both rows for chess, and the Cricket-only and Both rows for cricket, then compare boys and girls.

From your class data: Who plays chess the most (boys or girls)? Who plays cricket the most? How many play both?

30s

Think and write your answer first. Then share with your partner.

Model answer

Answers vary with the class. Add the Chess-only and Both rows for chess, and the Cricket-only and Both rows for cricket, then compare boys and girls.

Listen for:

add the rows

compare

Total items sold in 3 days

Items	Total sold
Fruit Chaats	
Sandwiches	

Total items sold in 3 days

Items	Total sold
Fruit Chaats	28
Sandwiches	

Total items sold in 3 days

Items	Total sold
Fruit Chaats	28
Sandwiches	46

1 The most sandwiches were sold on ____.

2 The highest sale on Day 2 was ____.

1 The most sandwiches were sold on ____.

Day 3 (18)

2 The highest sale on Day 2 was ____.

1 The most sandwiches were sold on ____.

Day 3 (18)

2 The highest sale on Day 2 was ____.

sandwiches

Total sales each day (circle the highest)

Day	Total sales
Day 1	
Day 2	
Day 3	

Total sales each day (circle the highest)

Day	Total sales
Day 1	$7 + 12 = 19$
Day 2	
Day 3	

Total sales each day (circle the highest)

Day	Total sales
Day 1	$7 + 12 = 19$
Day 2	$12 + 16 = 28$ (circle)
Day 3	

Total sales each day (circle the highest)

Day	Total sales
Day 1	$7 + 12 = 19$
Day 2	$12 + 16 = 28$ (circle)
Day 3	$9 + 18 = 27$

Chapter 14 complete

Why does a table or a pictograph help us find the most and the least?



Clear question



Count



Table



Pictograph

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