

Collecting Data

Does the question need data? Circle Needs data or One answer.

Example

What is the favorite lunch in our class?

You would have to ask many students.

Needs data**One answer****Example**

What color is our classroom door?

You can just look at it.

Needs data**One answer**

1. Which color do most kids in our class like best?

Needs data**One answer**

2. What is the name of our school?

Needs data**One answer**

3. How many legs does a spider have?

Needs data**One answer**

4. How many cars drive past our school in one hour?

Needs data**One answer**

5. What color are my shoes today?

Needs data**One answer**

6. Which sport do the students in our school like best?

Needs data**One answer**

7. What day of the week is it today?

Needs data**One answer**

8. How many books did each student in our class read?

Needs data**One answer**

9. How many wheels does a bike have?

Needs data**One answer**

10. How many pets do the families on our street have?

Needs data**One answer**

Collecting Data

How would you get the data? Circle Ask, Count, or Look it up.



Ask

Ask people what they like, think, or do.



Count

Watch, and make a tally mark for each one you see.



Look it up

Find it in a record, like a calendar or a chart.

Example

Which field trip does our class want to take?

People choose, so ask them.

Ask

Count

Look it up

1. How many birds come to our bird feeder today?

Ask

Count

Look it up

2. How many days did it rain last month?

Ask

Count

Look it up

3. What is the favorite ice cream flavor in our class?

Ask

Count

Look it up

4. How many crayons of each color are in our box?

Ask

Count

Look it up

5. How many kids were absent each day last week?

Ask

Count

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6. How many teeth has each classmate lost?

Ask

Count

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7. How many trucks drive past our school at lunch?

Ask

Count

Look it up

8. How many library books did we borrow last year?

Ask

Count

Look it up

9. What time do the students in our class go to bed?

Ask

Count

Look it up

Collecting Data

Tally the survey answers. Write each number. Then answer.

Room 9 asked: How do you get to school?

Each card is one answer. Check off each card as you tally it. The bus cards are done.



Ava



Ben



Cora



Dev



Eli



Finn



Gia



Hugo



Ivy



Jay



Kai



Lena



Max



Nia



Omar



Pia



Quinn



Rosa



Sam



Tess



Uma



Vic



Wes



Yara



Zoe

Way	Tally	Number
 bus	Example	6
 car		
 walk		
 bike		
 scooter		
 skateboard		
Total	Is it 25?	

 = 5

Make 4 marks, then cross them with the 5th. Count by fives.

1. How many students did not ride the bus?

Example $25 - 6 = 19$
2. Which way got the most answers?

3. Which way got the fewest?

4. How many more came by car than walked?

5. How many walked or rode a bike in all?

Collecting Data

Find the data in the list. Make a frequency table. Then answer.

Room 12 Library Checkout List

30 books

Each book has a sticker for its kind (see the table). The animal books are checked off.

Book		
1	Polar Bear Cubs	✓
2	Big Game Day	
3	Rapunzel	
4	Owls at Night	✓
5	Pancakes for All	
6	Stars Up Close	
7	Learn to Swim	
8	The Tiny Turtle	✓
9	Giggle Time	
10	Rings of Saturn	

Book		
11	The Missing Mitten	
12	Pandas Eat Bamboo	✓
13	Jokes for Lunch	
14	The Gingerbread Man	
15	My Robot Pal	
16	The Big Joke Book	
17	Soccer Stars	
18	The Sun Is a Star	
19	The Joke Jar	
20	Who Took the Map?	

Book		
21	Kids Can Bake	
22	Riddles and Puns	
23	Life on a Rocket	
24	Goldilocks	
25	Laugh Out Loud	
26	Mars Rover Days	
27	The Frog Prince	
28	Silly Knock-Knocks	
29	Trip to the Moon	
30	A Fox in the Snow	✓

Kind	Tally	Number
Animals	Example	5
Space		
Sports		
Fairy Tales		
Jokes		
Mysteries		
Robots		
Cooking		
Total	Is it 30?	

Tip: check off each book as you tally it, so no book is counted twice.

- How many books were not animal books?
Example 30 - 5 = 25
- Which kind was checked out the most?

- Which two kinds have the same number?

- How many more joke books than sports books?

- How many more animal and space books than sports books?

Collecting Data

Write a survey question. Collect the data. Ask about data.

1. Our class is choosing a class pet.

Example

Our class is picking a game for recess.
Question: Which game do you want to play at recess?
Choices: tag, soccer, jump rope, hopscotch

Way:

Ask

Survey question: _____

Answer choices: _____

How will you get the data? Ask Count Look it up

2. Ask 10 classmates. Tally their answers.

Answer choice	Tally	Number
Total		

Use your question and choices from part 1.
Make one tally mark for each classmate.
Check: is the total 10?



3. We counted bugs in the school garden.

Bug	Tally	Number
ants		9
ladybugs		4
bees		6
butterflies		3
Total		22

Write a question this table can answer.

Then answer it: _____

Collecting Data

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One answer

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What color is our classroom door?

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Needs data

One answer

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One answer

2. What is the name of our school?

Needs data

One answer

3. How many legs does a spider have?

Needs data

One answer

4. How many cars drive past our school in one hour?

Needs data

One answer

5. What color are my shoes today?

Needs data

One answer

6. Which sport do the students in our school like best?

Needs data

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7. What day of the week is it today?

Needs data

One answer

8. How many books did each student in our class read?

Needs data

One answer

9. How many wheels does a bike have?

Needs data

One answer

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Needs data

One answer

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✓

✓



✓













✓



✓









✓





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 bus	Example	6
 car		
 walk		
 bike		
 scooter		
 skateboard		
Total	Is it 25?	

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Make 4 marks, then cross them with the 5th. Count by fives.

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Example $25 - 6 = 19$
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Book	Book	Book
1 🐾 Polar Bear Cubs ✓	11 🔍 The Missing Mitten	21 🍳 Kids Can Bake
2 🌐 Big Game Day	12 🐾 Pandas Eat Bamboo ✓	22 😊 Riddles and Puns
3 👑 Rapunzel	13 😊 Jokes for Lunch	23 ☆ Life on a Rocket
4 🐾 Owls at Night ✓	14 👑 The Gingerbread Man	24 👑 Goldilocks
5 🍳 Pancakes for All	15 🤖 My Robot Pal	25 😊 Laugh Out Loud
6 ☆ Stars Up Close	16 😊 The Big Joke Book	26 ☆ Mars Rover Days
7 🌐 Learn to Swim	17 🌐 Soccer Stars	27 👑 The Frog Prince
8 🐾 The Tiny Turtle ✓	18 ☆ The Sun Is a Star	28 😊 Silly Knock-Knocks
9 😊 Giggle Time	19 😊 The Joke Jar	29 ☆ Trip to the Moon
10 ☆ Rings of Saturn	20 🔍 Who Took the Map?	30 🐾 A Fox in the Snow ✓

Kind	Tally	Number
🐾 Animals	Example	5
☆ Space		
🌐 Sports		
👑 Fairy Tales		
😊 Jokes		
🔍 Mysteries		
🤖 Robots		
🍳 Cooking		
Total	Is it 30?	

Tip: check off each book as you tally it, so no book is counted twice.

1. How many books were not animal books?
Example 30 – 5 = 25
2. Which kind was checked out the most?

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Question: Which game do you want to play at recess?
Choices: tag, soccer, jump rope, hopscotch

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Survey question: _____

Answer choices: _____

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Answer choice	Tally	Number
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Check: is the total 10?



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You can just look at it.

Needs data

One answer

1. Which color do most kids in our class like best?

Needs data

One answer

2. What is the name of our school?

Needs data

One answer

3. How many legs does a spider have?

Needs data

One answer

4. How many cars drive past our school in one hour?

Needs data

One answer

5. What color are my shoes today?

Needs data

One answer

6. Which sport do the students in our school like best?

Needs data

One answer

7. What day of the week is it today?

Needs data

One answer

8. How many books did each student in our class read?

Needs data

One answer

9. How many wheels does a bike have?

Needs data

One answer

10. How many pets do the families on our street have?

Needs data

One answer

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Tally the survey answers. Write each number. Then answer.

Room 9 asked: How do you get to school?

Each card is one answer. Check off each card as you tally it. The bus cards are done.

 	 	 	 	 
  ✓	  ✓	 	  ✓	 
 	 	 	 	 
  ✓	 	  ✓	 	 
 	 	  ✓	 	 

Way	Tally	Number
 bus	Example	6
 car		7
 walk		5
 bike		4
 scooter		2
 skateboard		1
Total	Is it 25?	25

|||| = 5

Make 4 marks, then cross them with the 5th. Count by fives.

1. How many students did not ride the bus?

Example $25 - 6 = 19$

2. Which way got the most answers?

car

3. Which way got the fewest?

skateboard

4. How many more came by car than walked?

$7 - 5 = 2$

5. How many walked or rode a bike in all?

$5 + 4 = 9$

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6 ☆ Stars Up Close	
7 🌐 Learn to Swim	
8 🐾 The Tiny Turtle	✓
9 😊 Giggle Time	
10 ☆ Rings of Saturn	

Book	
11 🔍 The Missing Mitten	
12 🐾 Pandas Eat Bamboo	✓
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28 😊 Silly Knock-Knocks	
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30 🐾 A Fox in the Snow	✓

Kind	Tally	Number
🐾 Animals	### Example	5
☆ Space	###	6
🌐 Sports		3
👑 Fairy Tales		4
😊 Jokes	###	7
🔍 Mysteries		2
🤖 Robots		1
🍳 Cooking		2
Total	Is it 30?	30

Tip: check off each book as you tally it, so no book is counted twice.

1. How many books were not animal books?

Example $30 - 5 = 25$

2. Which kind was checked out the most?

Jokes

3. Which two kinds have the same number?

Mysteries, Cooking

4. How many more joke books than sports books?

$7 - 3 = 4$

5. How many more animal and space books than sports books?

$5 + 6 - 3 = 8$

Collecting Data

Write a survey question. Collect the data. Ask about data.

1. Our class is choosing a class pet.

Answers will vary. Example:

Example

Our class is picking a game for recess.

Question: Which game do you want to play at recess?

Choices: tag, soccer, jump rope, hopscotch

Way:

Ask

Survey question: Which pet should our class get?

Answer choices: fish hamster turtle rabbit

How will you get the data?

Ask

Count

Look it up

2. Ask 10 classmates. Tally their answers.

Answers will vary. Example:

Answer choice	Tally	Number
fish		4
hamster		3
turtle		1
rabbit		2
Total		10

Use your question and choices from part 1.

Make one tally mark for each classmate.

Check: is the total **10**?



3. We counted bugs in the school garden.

Answers will vary. Example:

Bug	Tally	Number
ants		9
ladybugs		4
bees		6
butterflies		3
Total		22

Write a question this table can answer.

How many more ants than bees did we count?

Then answer it: 9 - 6 = 3