SCAN FOR HELP

Worksheet 39: Posing Questions & Tally Marks

Name: _____   **Date:** _____

Score: _____

Section 1: Fluency (Questions 1–10)

Question 1:
Write the number shown by these tally marks.

Answer: _____

Question 2:
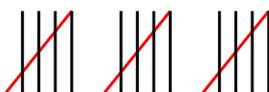Write the number shown by these tally marks.

Answer: _____

Question 3:
Write the number shown by these tally marks.

Answer: _____

Question 4:
Write the number shown by these tally marks.

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Answer: _____

Question 5:
Write the number shown by these tally marks.

Answer: _____

Question 6:
Write the number shown by these tally marks.

Answer: _____

Question 7:
Write the number shown by these tally marks.

Answer: _____

Question 8:
Write the number shown by these tally marks.

Answer: _____

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Question 9:

Write the number shown by these tally marks.

Answer: _____

Question 10:

Write the number shown by these tally marks.

Answer: _____

Good Job!

Why did the tally marks go to the party? Because they knew how to count on each other!
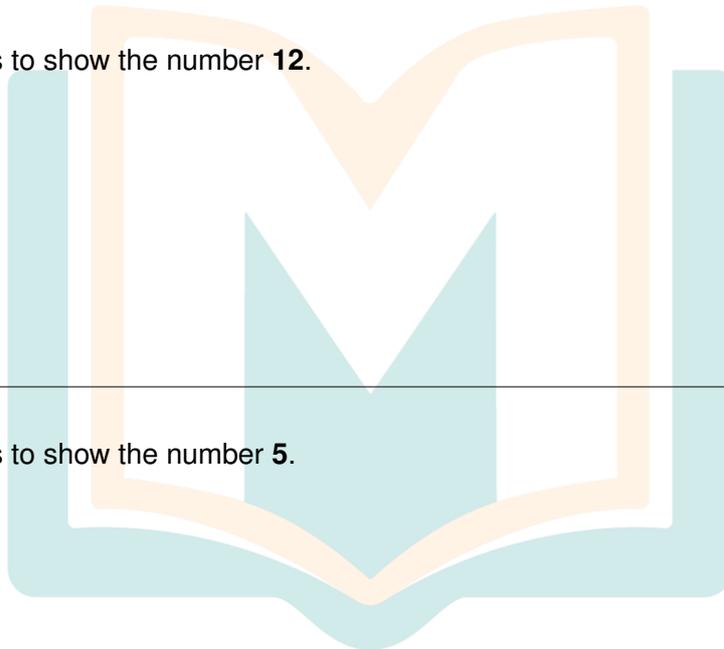
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Section 2: Reasoning (Questions 11–20)

Question 11:
Draw tally marks to show the number **8**.

Question 12:
Draw tally marks to show the number **12**.

Question 13:
Draw tally marks to show the number **5**.

Question 14:
Draw tally marks to show the number **17**.

Question 15:
Draw tally marks to show the number **24**.

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Question 16:

Emma drew these tally marks: |||| |||| || . How many more tally marks does she need to show 20?

Answer: _____

Question 17:
Tom has 3 bundles of tally marks (each bundle has 5). How many tallies does he have in total?

Answer: _____

Question 18:
Sarah wants to record 22 votes using tally marks. How many complete bundles of 5 will she have?
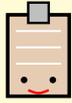
Answer: _____

Question 19:
Draw tally marks to show the number **10**.

Question 20:

Look at these tally marks: |||| |||| |||| / . Circle the bundles of 5.

|||| |||| |||| /

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Good Job!

What do you call a number that can't sit still?   A roamin' numeral!

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Section 3: Challenge (Questions 21–30)

Question 21:
Circle the **best question** for a class survey:

A) "What is your favourite colour?"
B) "Do you like blue?"

Answer: _____
Explain why: _____

Question 22:
Which question would give you **more information**?

A) "How do you get to school?"
B) "Do you walk to school?"

Answer: _____

Question 23:
Jake wants to find out the most popular pet in his class. Which question should he ask?

A) "Do you have a dog?"
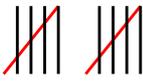B) "What type of pet do you have?"

Answer: _____

Question 24:
Circle the question that can be answered by collecting data:

A) "What is the best sport?"
B) "How many students in our class like soccer?"

Answer: _____

Question 25:
Emma surveyed 10 friends about their favourite fruit. She used tally marks: |||| ||||. Is this the correct way to record 10 items?

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Answer: _____

Explain: _____

Question 26:

Write a good survey question to find out the most popular lunch food in your class.

Question: _____

Question 27:

Why is "What is your favourite subject?" a better question than "Do you like Maths?"

Answer: _____

_____

Question 28:

Tom collected data using tally marks. He has 4 complete bundles and 3 extra marks. How many items did he count?
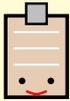
Answer: _____

Question 29:

Design a tally mark chart to record votes for favourite ice cream flavours: Chocolate, Vanilla, Strawberry.

Question 30:

A survey question asks: "How many books did you read last month?" Is this a good question for collecting data? Why?

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Answer: _____

_____

_____

Good Job!

Why was the data scientist so calm? Because they knew how to stay within range!

Answer Key
Worksheet 39: Posing Questions & Tally Marks

Question 1:
7
Question 2:
12
Question 3:
3
Question 4:
15
Question 5:
9
Question 6:
20
Question 7:
6
Question 8:
18
Question 9:
11
Question 10:
24
Question 11:
Check drawing: 1 bundle of 5 + 3 marks
Question 12:
Check drawing: 2 bundles of 5 + 2 marks
Question 13:
Check drawing: 1 bundle of 5 marks
Question 14:
Check drawing: 3 bundles of 5 + 2 marks
Question 15:
Check drawing: 4 bundles of 5 + 4 marks
Question 16:
7 more tally marks

Question 17:
15 tallies
Question 18:
4 complete bundles (with 2 extra)
Question 19:
Check drawing: 2 bundles of 5
Question 20:
Check circling: 3 complete bundles
Question 21:
A; Explanation: Gives more options/variety of answers
Question 22:
A
Question 23:
B
Question 24:
B
Question 25:
Yes; Explanation: Two bundles of 5 correctly show 10
Question 26:
Example: "What is your favourite lunch food?"
Question 27:
It allows different answers, not just yes/no
Question 28:
23 items
Question 29:
Check table with three rows and tally/number columns
Question 30:
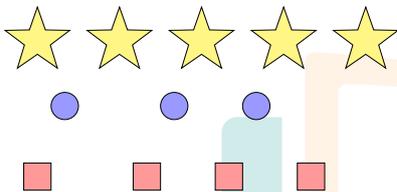Yes; it can be answered with countable data

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Worksheet 40: Organizing Data

Name: _____ **Date:** _____

Score: _____

Section 1: Fluency (Questions 1–10)

Question 1:
Count the shapes below and fill in the table.

Category	Tally	Number
Stars		
Circles		
Squares		

Question 2:
Count the fruits and complete the table.

Apples:
Bananas:
Oranges:

Category	Tally	Number
Apples		
Bananas		
Oranges		

Question 3:
Count the animals below and fill in the table.

Dogs:
Cats:
Birds:

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Category	Tally	Number
Dogs		
Cats		
Birds		

Question 4:

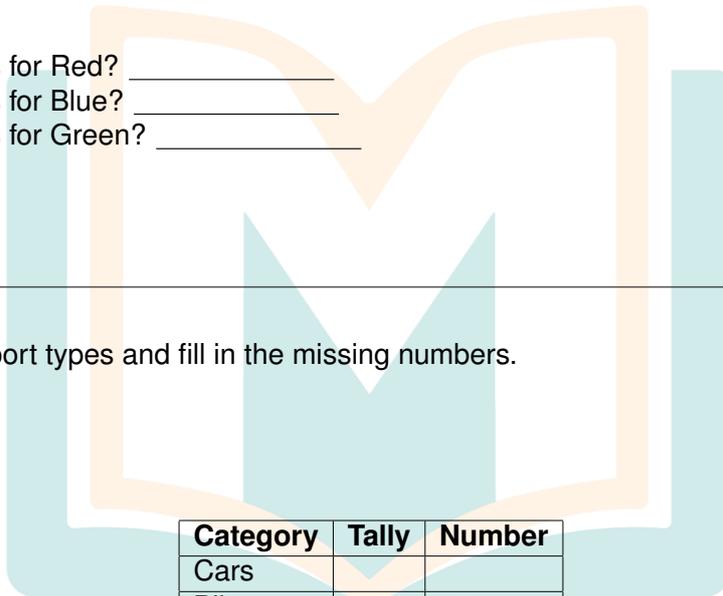The shapes below show votes for favourite colours. Count them.

Red:
Blue:
Green:

How many votes for Red? _____
How many votes for Blue? _____
How many votes for Green? _____

Question 5:

Count the transport types and fill in the missing numbers.

Cars:
Bikes:
Buses:

Category	Tally	Number
Cars		
Bikes		
Buses		

Question 6:

Emma counted items in her pencil case:

Pencils:
Erasers:
Rulers:

Complete the table:

Category	Tally	Number
Pencils		
Erasers		
Rulers		

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Question 7:

Count the weather symbols for last week:

Sunny:
Rainy:
Cloudy:

Sunny: _____
Rainy: _____
Cloudy: _____

Question 8:

Tom surveyed his class about favourite sports. Count the responses:

Soccer:
Basketball:
Cricket:

Which sport is most popular? _____

Question 9:

Count the ice cream flavours chosen:

Chocolate:
Vanilla:
Strawberry:

Category	Tally	Number
Chocolate		
Vanilla		
Strawberry		

Question 10:

Count the book types in the library corner:

Fiction:
Non-fiction:
Picture books:

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How many books in total? _____
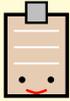
Good Job!

Why did the table get promoted? Because it was well-organized!

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Section 2: Reasoning (Questions 11–20)

Question 11:
Class 3B voted for their favourite sport:

- Cricket: 5 votes

- Soccer: 12 votes

- Tennis: 3 votes

Which sport is most popular? _____

Question 12:
Using the data from Question 11, how many students voted in total?
Answer: _____

Question 13:
Sarah collected data on favourite colours:

- Red: 8

- Blue: 6

- Green: 4

Which colour is **least** popular? _____

Question 14:
Tom's class voted for a class pet:

- Fish: 7 votes

- Rabbit: 9 votes

- Guinea pig: 5 votes

How many more votes did Rabbit get than Fish? _____

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Question 15:
Emma surveyed 25 students about their lunch. 10 brought sandwiches, 8 brought pasta. How many brought something else?
Answer: _____

Question 16:
Look at this data:

Fruit	Votes
Apple	12
Orange	8
Banana	6

How many people chose Apple or Orange? _____

Question 17:
A class has 30 students. 15 walk to school, 10 come by car. The rest take the bus. How many take the bus?
Answer: _____

Question 18:
Jake counted vehicles: 8 cars, 5 bikes, 2 trucks. How many vehicles in total?
Answer: _____

Question 19:
Students voted for movie types:

- Comedy: 14

- Action: 11

- Adventure: 9

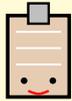What is the difference between the most popular and least popular?
Answer: _____

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Question 20:

Lisa organized her stickers:

Type	Number
Animals	15
Stars	10
Hearts	12

How many stickers does Lisa have altogether? _____

Good Job!

What did the data say to the chart? "You complete me!"

Section 3: Challenge (Questions 21–30)

Question 21:
The table shows votes for favourite season. There are 20 votes total. Fill in the missing number.

Season	Votes
Summer	10
Winter	5
Autumn	?

Autumn votes: _____

Question 22:
Tom collected data on 30 students' eye colours:

- Brown: 18

- Blue: 8

- Green: ?

How many students have green eyes? _____

Question 23:
A survey shows:

Pet	Number
Dogs	12
Cats	9
Birds	4
Fish	?
Total	30

How many students have fish? _____

Question 24:
Emma's class voted for lunch options. Pizza got twice as many votes as salad. Salad got 6 votes. How many votes did pizza get?
Answer: _____

Question 25:

Sarah organized data on favourite subjects. Maths and English together got 20 votes. Maths got 12 votes. How many did English get?

Answer: _____

Question 26:

Complete the table. The total number of students surveyed is 24.

Transport	Number
Walk	10
Car	8
Bus	?

Bus: _____

Question 27:

Tom recorded drinks sold: Water (15), Juice (12), Milk (?). Total sold was 35. How many milk drinks were sold?

Answer: _____

Question 28:

In a class survey, 18 students chose outdoor games and 7 chose indoor games. The rest had no preference. There are 30 students. How many had no preference?
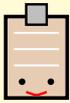
Answer: _____

Question 29:

Create a simple table to organize this data: Jake saw 8 red cars, 5 blue cars, and 3 white cars.

Question 30:

A bakery sold: Muffins (20), Cookies (15), Cakes (10). If they want to make a table showing this data, what would be the total in the "Total Items Sold" row?

Answer: _____

> **Good Job!**
>
> *Why did the statistician bring a ladder? To reach the higher data points!*

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Answer Key
Worksheet 40: Organizing Data

Question 1:
Stars: 5
Circles: 3
Squares: 4
Question 2:
Apples: 6
Bananas: 3
Oranges: 5
Question 3:
Dogs: 4
Cats: 7
Birds: 2
Question 4:
Red: 8
Blue: 5
Green: 3
Question 5:
Cars: 6
Bikes: 4
Buses: 2
Question 6:
Pencils: 5
Erasers: 3
Rulers: 2
Question 7:
Sunny: 4
Rainy: 2
Cloudy: 1
Question 8:
Soccer (8 votes)
Question 9:
Chocolate: 7
Vanilla: 4
Strawberry: 5
Question 10:
15 books
Question 11:
Soccer

Question 12:
20 students
Question 13:
Green
Question 14:
2 more votes
Question 15:
7 students
Question 16:
20 people
Question 17:
5 students
Question 18:
15 vehicles
Question 19:
5 (14 - 9)
Question 20:
37 stickers
Question 21:
5 votes
Question 22:
4 students
Question 23:
5 students
Question 24:
12 votes
Question 25:
8 votes
Question 26:
6 students
Question 27:
8 milk drinks
Question 28:
5 students
Question 29:
Check table: Red (8), Blue (5), White (3)
Question 30:
45 items

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