

STATISTICS - DAY 2

L.O: I can make comparisons, find the sum and difference using tables and charts








SUCCESS CRITERIA

- ✓ I can use bar charts, pictograms and tables to make comparisons, find the sum and difference.
- ✓ I can explain my reasoning when using bar charts, pictograms and tables to make comparisons, find the sum and difference.

STARTER

James says, "Two more people chose basketball than running."

preferred sport	votes
basketball	
football	
running	
swimming	





Key:
 = 2 votes


Do you agree?

Explain your answer.

ANSWER

James says, "Two more people chose basketball than running."

preferred sport	votes
basketball	
football	
running	
swimming	

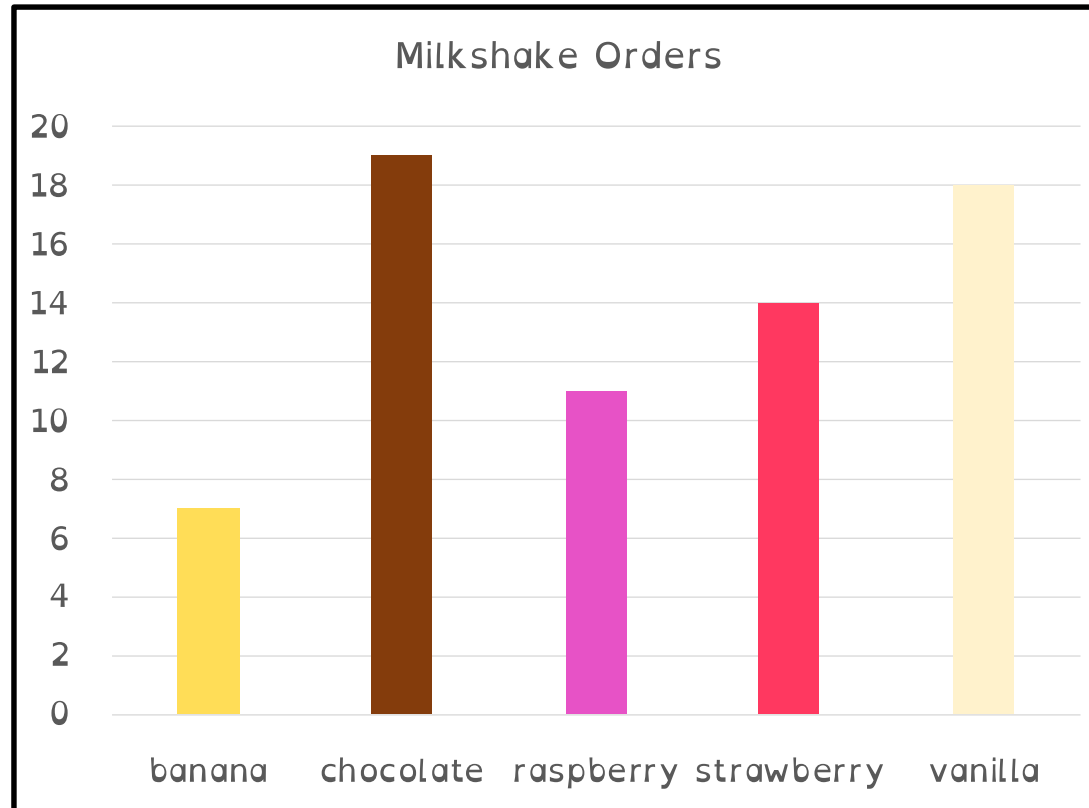
Key:
 = 2 votes

Do you agree?

Explain your answer.

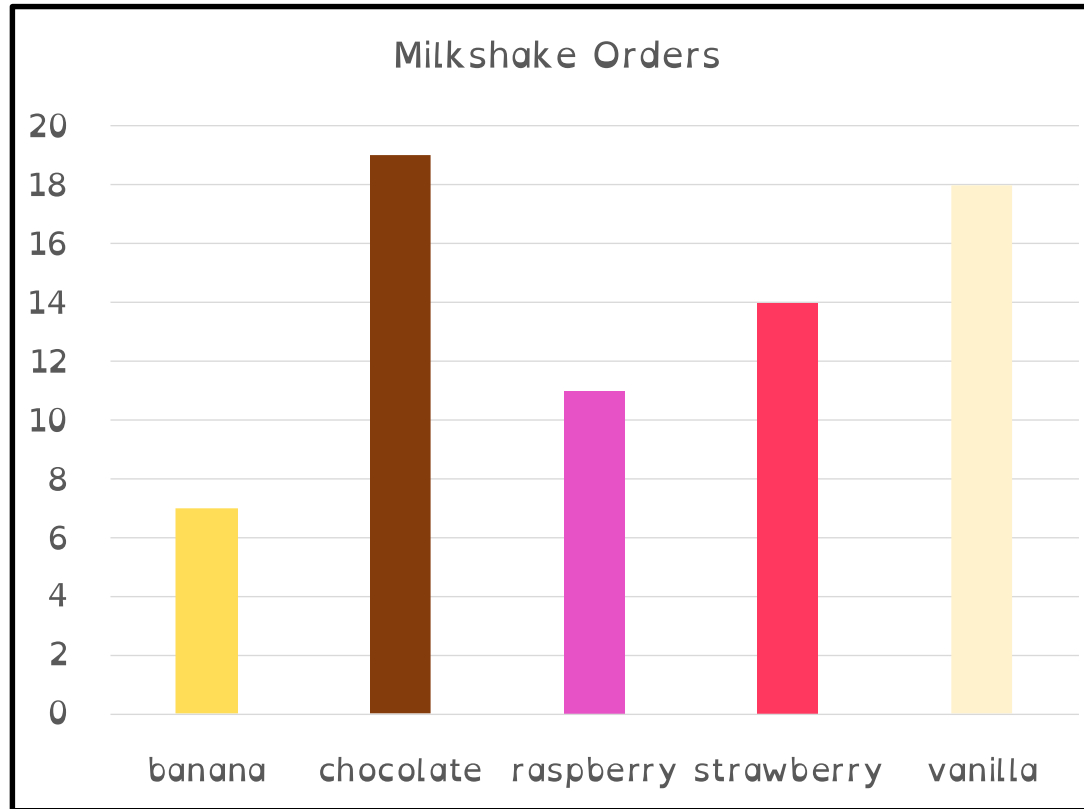
No, I do not agree. Seven people chose running, whereas eleven people chose basketball, which means that four more people chose basketball than running.

Look at the chart, then complete the sentence below.



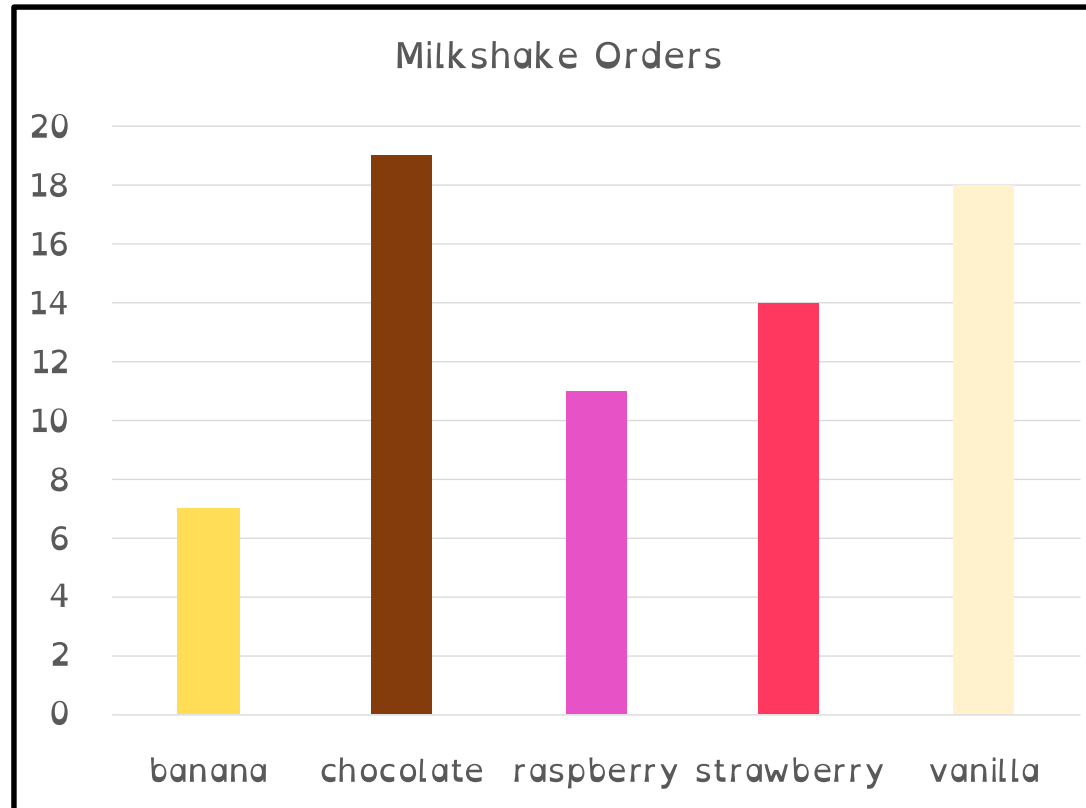
There were ____ more orders for strawberry than raspberry.

ANSWER



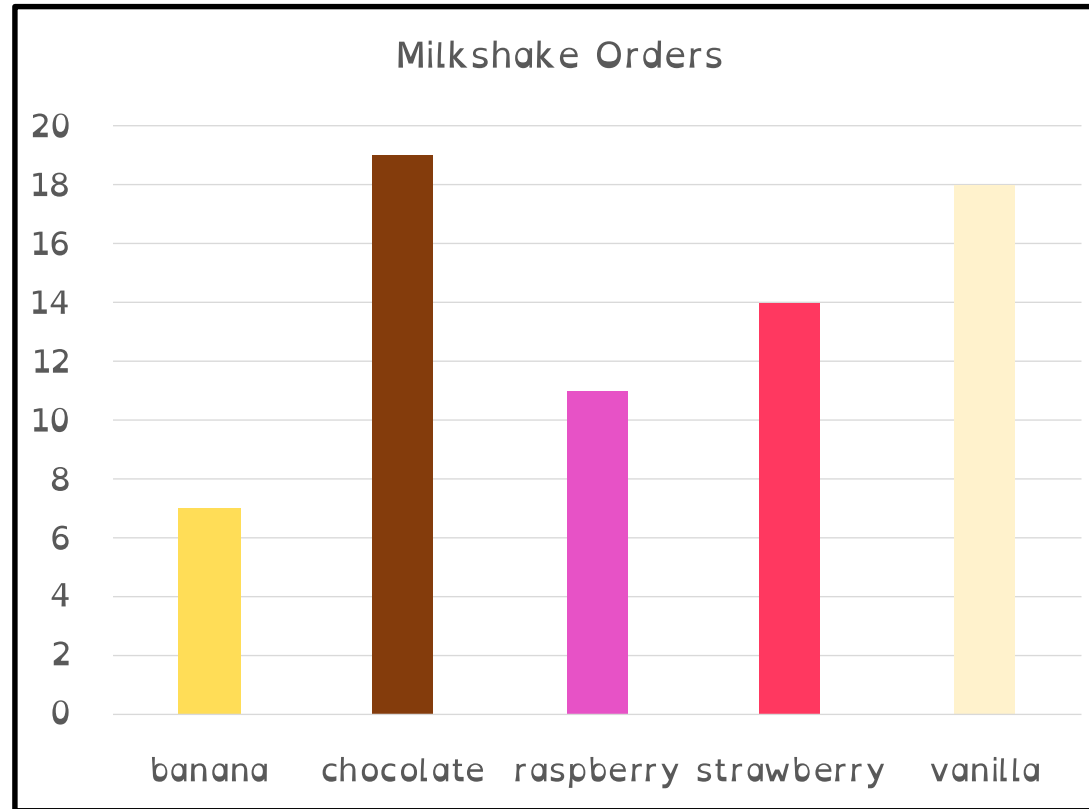
There were 3 more orders for strawberry than raspberry.

Look at the chart, then complete the sentence below.



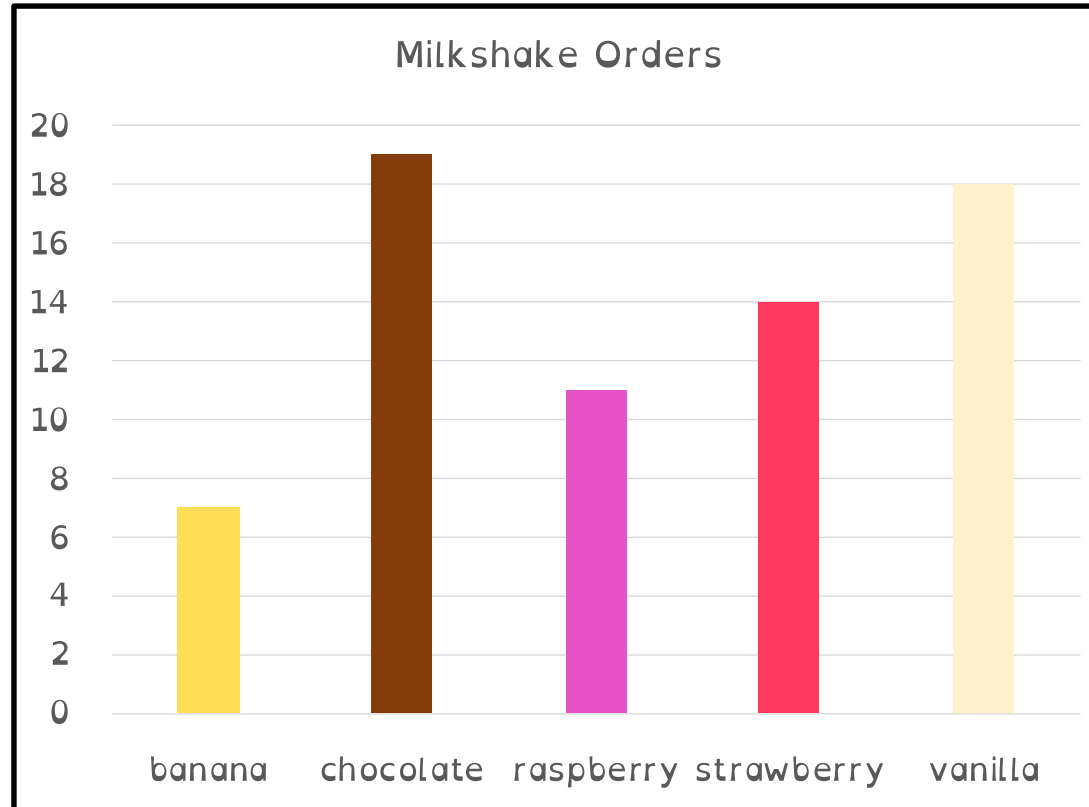
There were ___ more orders for chocolate than banana.

ANSWER



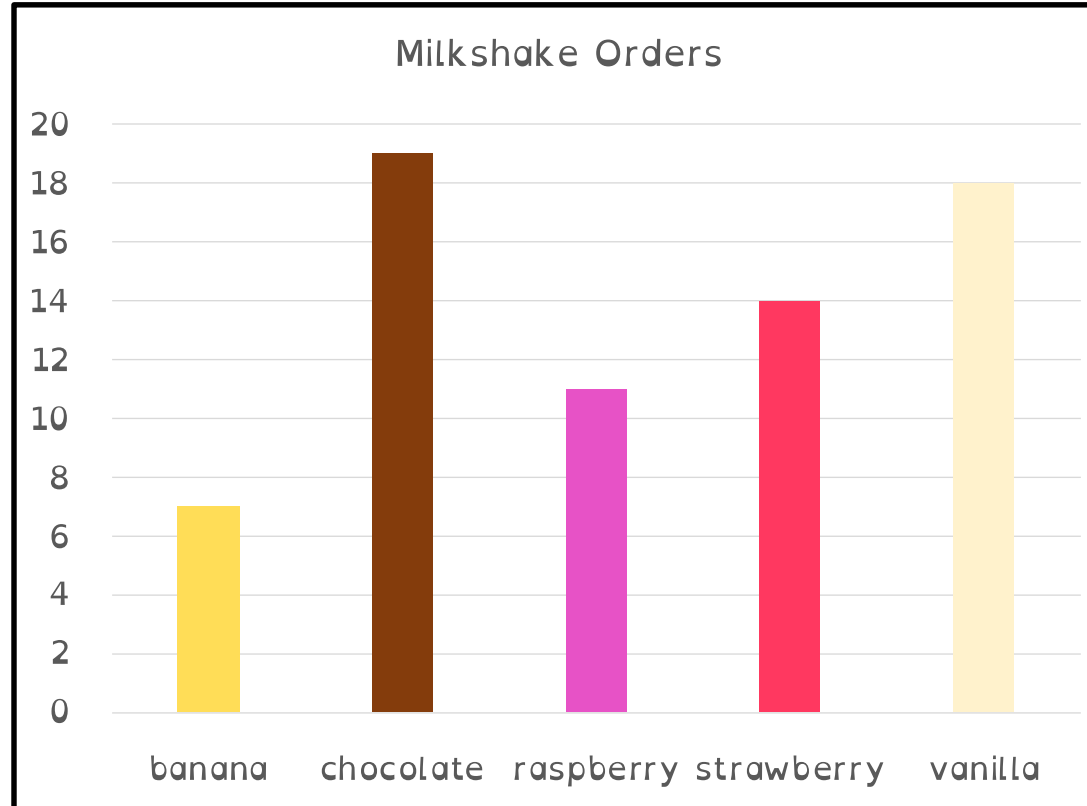
There were 12 more orders for chocolate than banana.

Look at the chart, then complete the sentence below.



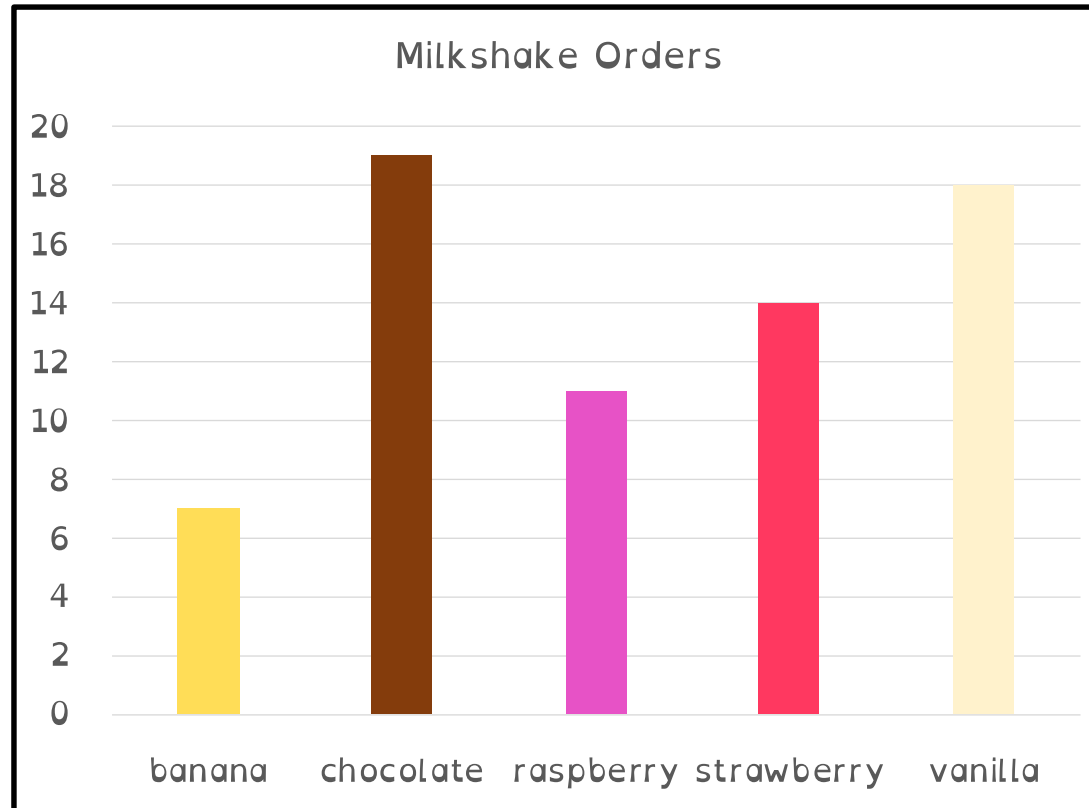
The difference between strawberry and vanilla is ____ orders.

ANSWER



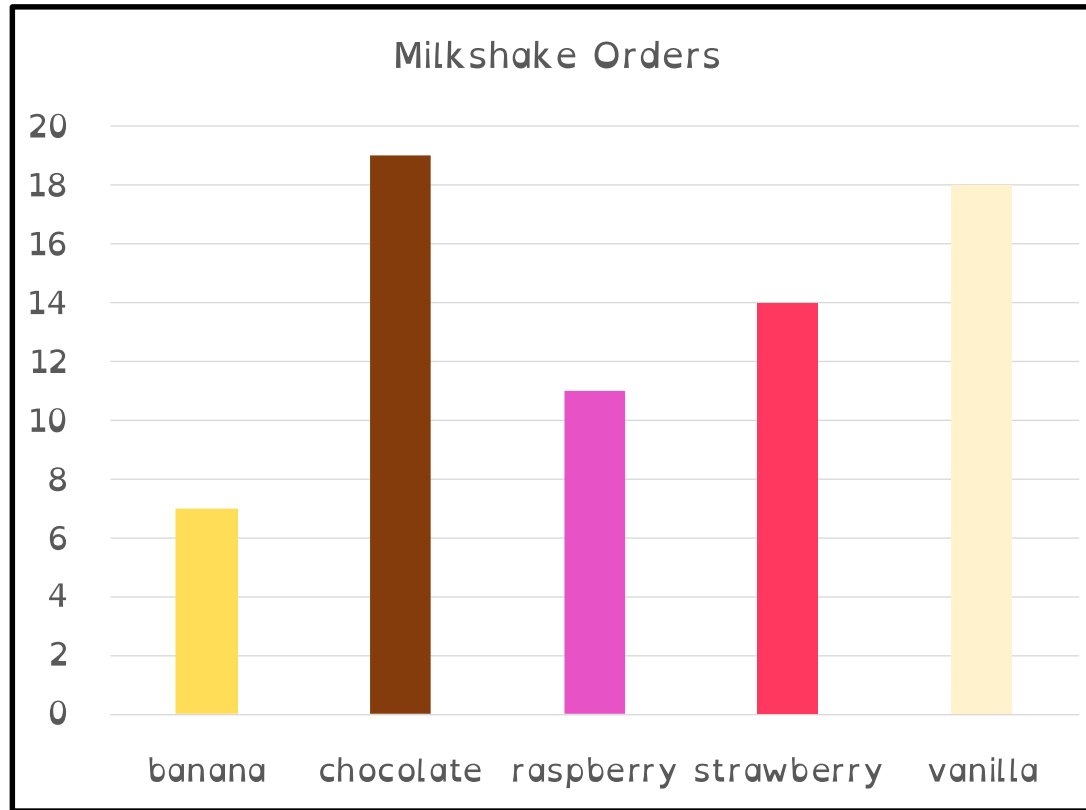
The difference between strawberry and vanilla is 4 orders.

Look at the chart, then complete the sentence below.



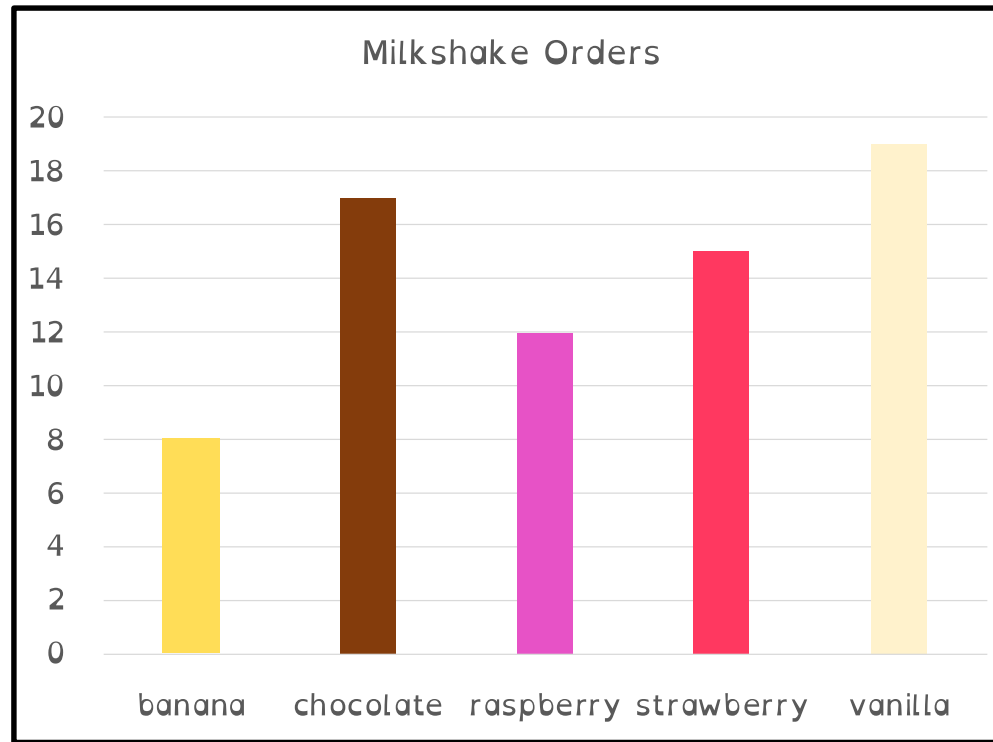
The difference between chocolate and raspberry is ____ orders.

ANSWER



The difference between chocolate and raspberry is 8 orders.

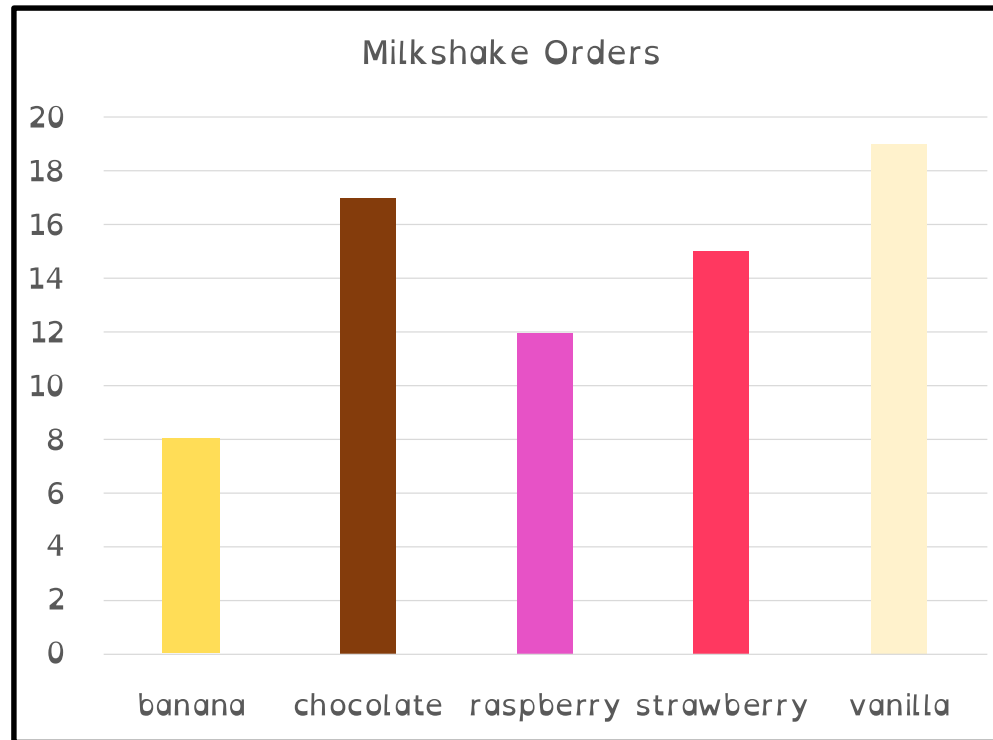
Using the chart below, answer the questions.



The difference between chocolate and banana is ____ orders.

____ milkshakes were ordered in total.


ANSWER





The difference between chocolate and banana is 9 orders.

71 milkshakes were ordered in total.


The pictogram shows total points for basketball teams at the end of a tournament. Compare their scores using $<$, $>$ and $=$.





a) Crocs  Hornets

b) Sharks  Rhinos

c) Rhinos  Crocs

d) Wizards scored double Sharks' points. Show that on the chart.

 Key:
= 4 points

team	number of points
Crocs	
Hornets	
Rhinos	
Sharks	
Wizards	

ANSWER

a)

Crocs



Hornets

b)

Sharks



Rhinos

c)

Rhinos




Crocs


d)


Wizards scored double Sharks' points. Show that on the chart.

team	number of points
Crocs	
Hornets	
Rhinos	
Sharks	
Wizards	


The pictogram shows total points for basketball teams at the end of a tournament. Compare their scores using $<$, $>$ and $=$.





a) Rhinos  Hornets

b) Sharks  Crocs

c) Hornets  Sharks

d) Wizards scored double Rhinos' points. Show that on the chart.





Key:
 = 4 points

team	number of points
Crocs	
Hornets	
Rhinos	
Sharks	
Wizards	

ANSWER

- a) Rhinos < Hornets
- b) Sharks > Crocs
- c) Hornets < Sharks
- d) Wizards scored double Rhinos' points. Show that on the chart.

Key:
● = 4 points

team	number of points
Crocs	● ● ● 
Hornets	● ● ●
Rhinos	● ● 
Sharks	● ● ● 
Wizards	● ● ● ● ● 

ACTIVITY

Ruth and Jamal are both trying to figure out the entire points total for all five teams.

Ruth says, "I count the stars for each team multiply the number of stars by 3, then add the team totals together to find the total of all five teams."

Jamal says, "I counted all of the stars and multiply the total number of stars by 3."

Who is correct?

Explain your answer.

Key: ★ = 3 points	
team	number of points
Dragons	★ ★ ★ ★ ★
Lions	★ ★
Owls	★ ★ ★ ★ ★ ★ ★
Rabbits	★
Tigers	★ ★ ★ ★

ANSWER

Ruth and Jamal are both trying to figure out the entire points total for all five teams.

Ruth says, "I count the stars for each team multiply the number of stars by 3, then add the team totals together to find the total of all five teams."

Jamal says, "I counted all of the stars and multiply the total number of stars by 3."

Who is correct?

Explain your answer.

Both of their strategies get the same total.
 $(5 \times 3) + (2 \times 3) + (7 \times 3) + (1 \times 3) + (4 \times 3)$
and $19 \times 3 = 57$ points.

Key: ★ = 3 points	
team	number of points
Dragons	★ ★ ★ ★ ★
Lions	★ ★
Owls	★ ★ ★ ★ ★ ★ ★
Rabbits	★
Tigers	★ ★ ★ ★

The table below shows the number of men and women who attended concerts.

concert	men	women	total
X	434	548	
Y	321		894
Z		509	874
total	1,120		

Are the statements below true or false?

More men than women went to Concert Y.

Concert X was the most popular.

ANSWER

concert	men	women	total
X	434	548	982
Y	321	573	894
Z	365	509	874
total	1,120	1,630	2,750

Are the statements below true or false?

More men than women went to Concert Y.

False

Concert X was the most popular.

True

The table below shows the number of men and women who attended concerts.

concert	men	women	total
X	346	537	
Y	412		998
Z		409	783
total	1,132		

Are the statements below true or false?

More women than men went to Concert Z.

Concert X was the most popular.

ANSWER

The table below shows the number of men and women who attended concerts.

concert	men	women	total
X	346	537	883
Y	412	586	998
Z	374	409	783
total	1,132	1,532	2,664

Are the statements below true or false?

More women than men went to Concert Z.

True

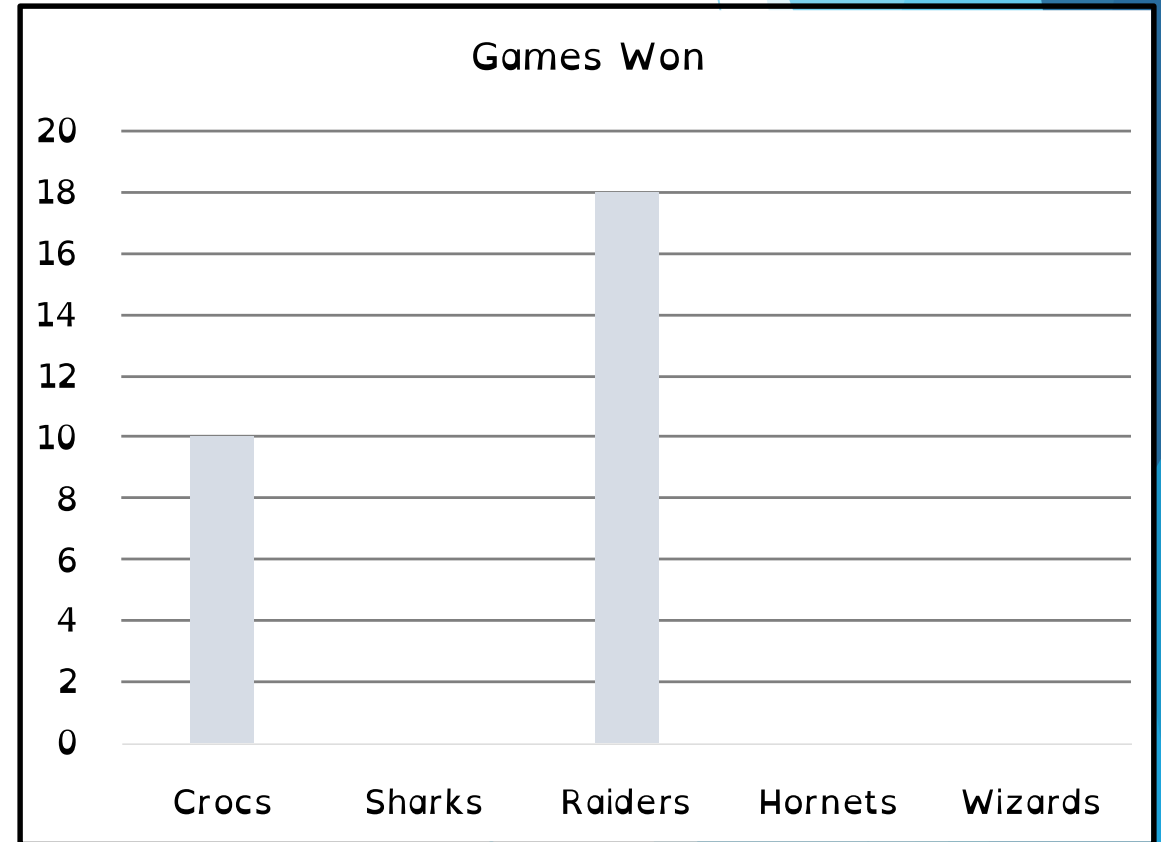
Concert X was the most popular.

False

ACTIVITY

Using the clues provided, complete the chart shown.

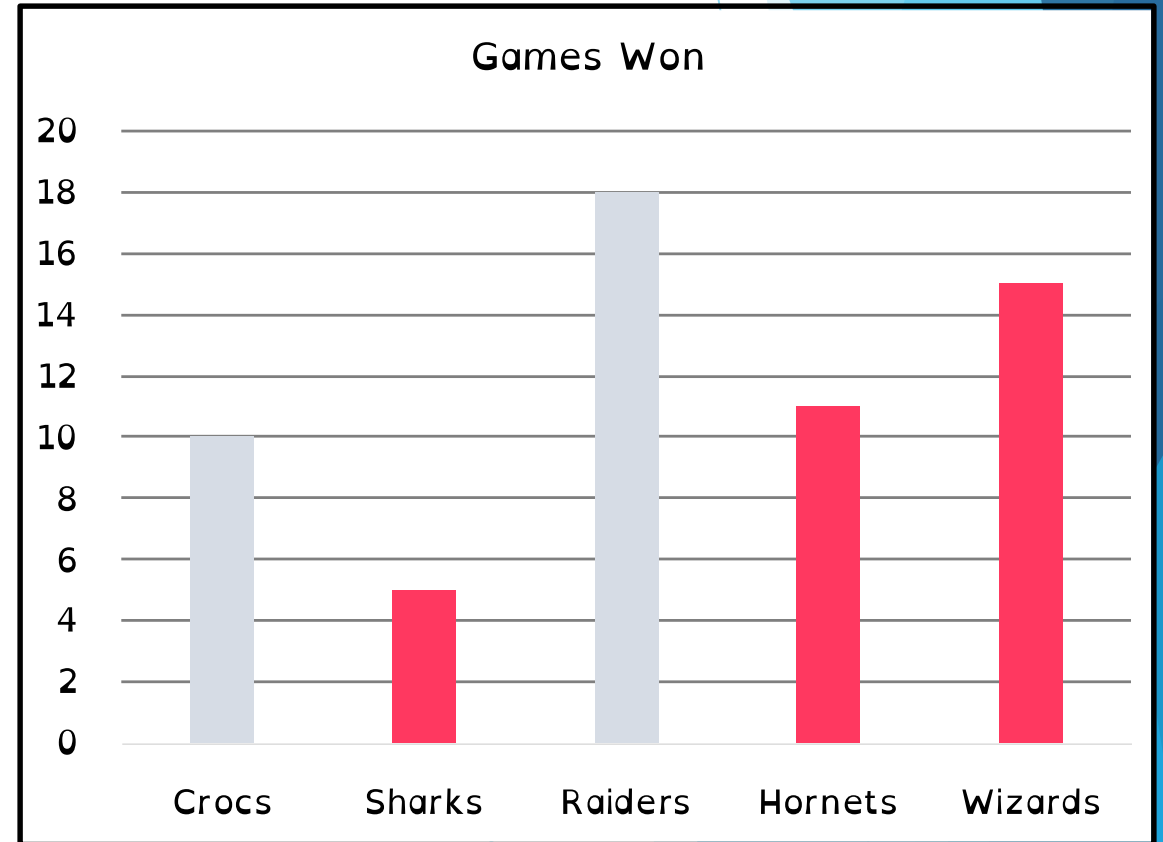
- ▶ Sharks won five fewer games than Crocs.
- ▶ Hornets won seven fewer games than Raiders.
- ▶ Wizards scored as many games as Crocs and Sharks combined.



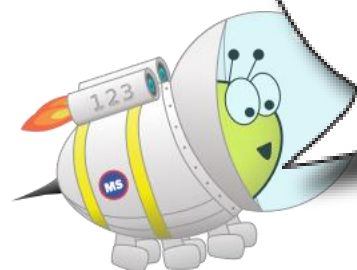
ANSWER

Using the clues provided, complete the chart shown.


- ▶ Sharks won five fewer games than Crocs.
- ▶ Hornets won seven fewer games than Raiders.
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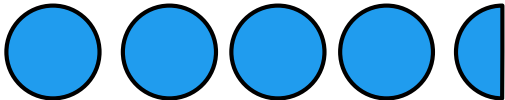
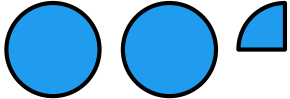
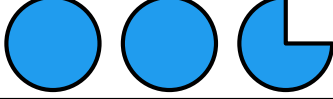
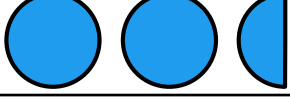

EVALUATION



Crocs scored two more points than Sharks.

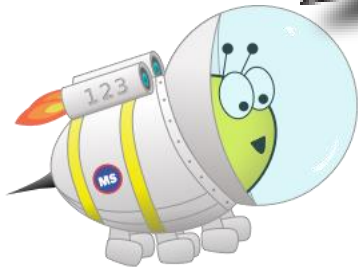


Key:
= 4 points

team	number of points
Crocs	
Hornets	
Rhinos	
Sharks	
Wizards	

Is Astrobee’s statement true or false?
Explain your answer.

ANSWER



Crocs scored two more points than Sharks.



Key:

= 4 points

team	number of points
Crocs	4 full circles, 1 half circle
Hornets	2 full circles, 1 quarter circle
Rhinos	2 full circles, 1 three-quarter circle
Sharks	2 full circles, 1 half circle
Wizards	3 full circles, 1 three-quarter circle

Is Astrobee's statement true or false?
Explain your answer.

Astrobee's statement is false. Each counter is worth four points. Crocs scored 18 points and Sharks scored 10 points, so they scored 8 more points

ANSWER