

Varied Fluency

Step 2: Bar Charts

National Curriculum Objectives:

Mathematics Year 3: (3S1) [Interpret and present data using bar charts, pictograms and tables](#)

Mathematics Year 3: (3S2) [Solve one-step and two-step questions \[for example, 'How many more?' and 'How many fewer?'\] using information presented in scaled bar charts and pictograms and tables](#)

Differentiation:

Developing Questions to support drawing and interpreting bar charts from pictograms and tables. Scales of 1, 2 or 10. No half pictures on pictograms or half intervals on bar charts.

Expected Questions to support drawing and interpreting bar charts from pictograms and tables. Scales of 1, 2, 5 or 10, using different scales within one problem. Including half pictures on pictograms, no half intervals on bar charts.

Greater Depth Questions to support drawing and interpreting bar charts from pictograms and tables. Scales of 1, 2, 3, 5 and 10. Including half pictures on pictograms and half intervals on bar charts, with some different scales on pictograms and bar charts within the same problem.



More [Year 3 and Year 4 Statistics](#) resources.

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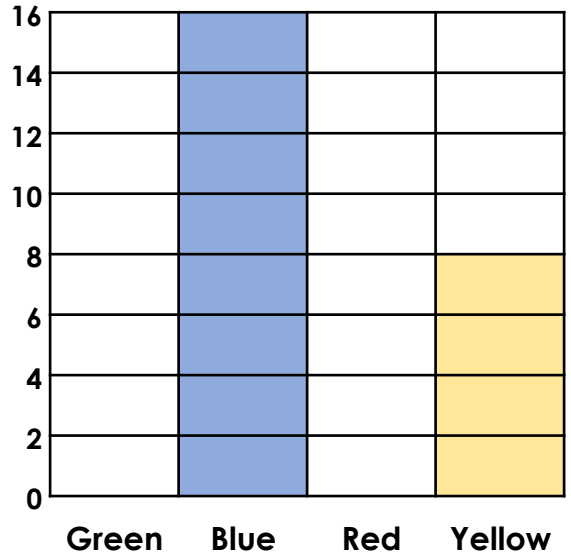
Bar Charts

Bar Charts

1a. Use the information to complete the pictogram and the bar chart.

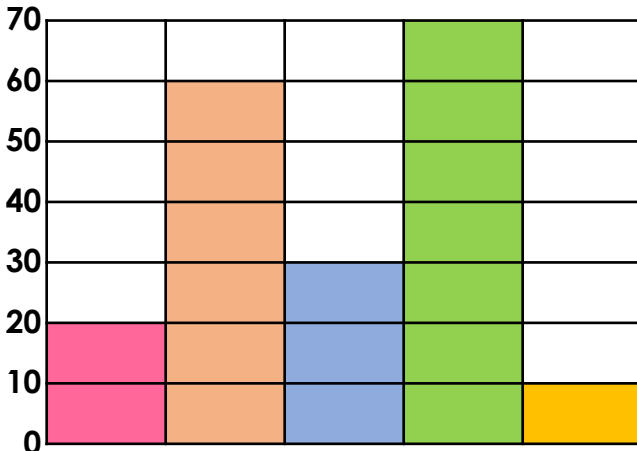
Favourite Colour	Number of Children
Green	
Blue	
Pink	
Yellow	

1 circle = 2 children



3 VF

2a. Use this bar chart to answer the questions about favourite shops.



A. Which shop is most popular?

B. How many more children like clothes shops than card shops?

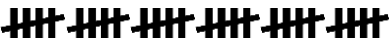
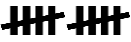

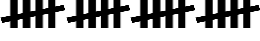
C. How many children like shoe shops?

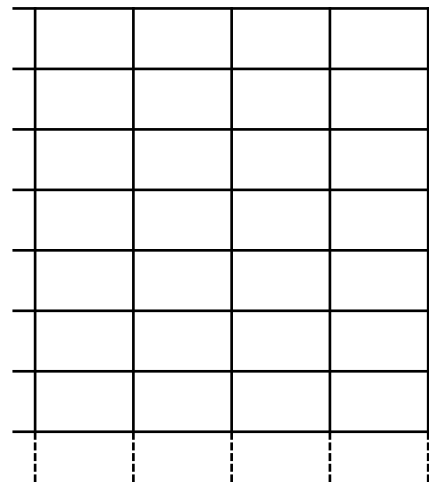
D. How many children were asked in total?



3 VF

3a. Create a bar chart using this tally chart. Write on the correct scale and labels.

Favourite Dessert	Number of Children
Fruit	
Ice-cream	
Cake	
Yoghurt	



3 VF

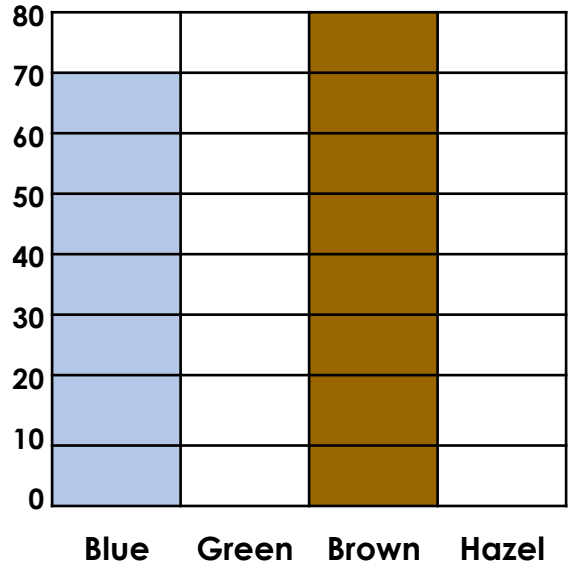
Bar Charts

Bar Charts

1b. Use the information to complete the pictogram and the bar chart.

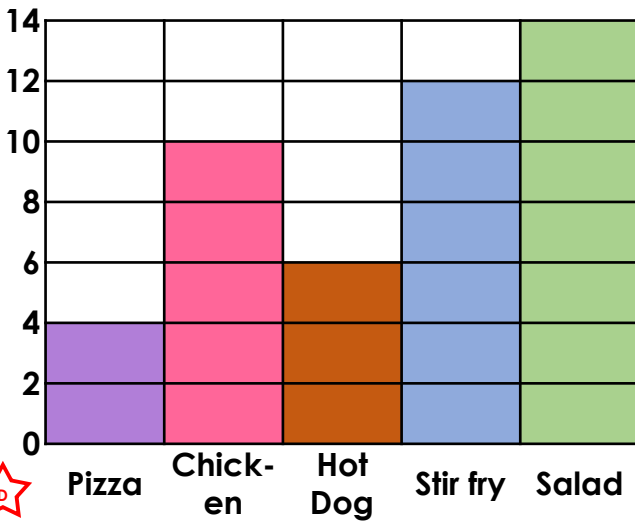
Eye Colour	Number of Children
Blue	
Green	●
Brown	
Hazel	● ● ● ●

1 circle = 10 children



3 VF

2b. Use this bar chart to answer the questions about the favourite school dinner.



A. Which dinner is least popular?

B. How many more children like salad than hot dogs?

C. How many children like chicken?

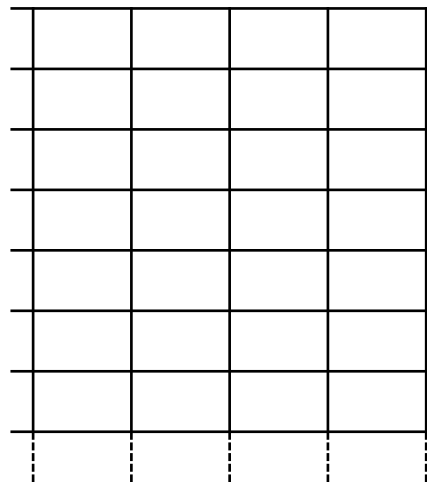
D. How many children were asked in total?



3 VF

3b. Create a bar chart using this tally chart. Write on the correct scale and labels.

Apples Sold	Number of Apples
Monday	
Tuesday	
Wednesday	
Thursday	



3 VF

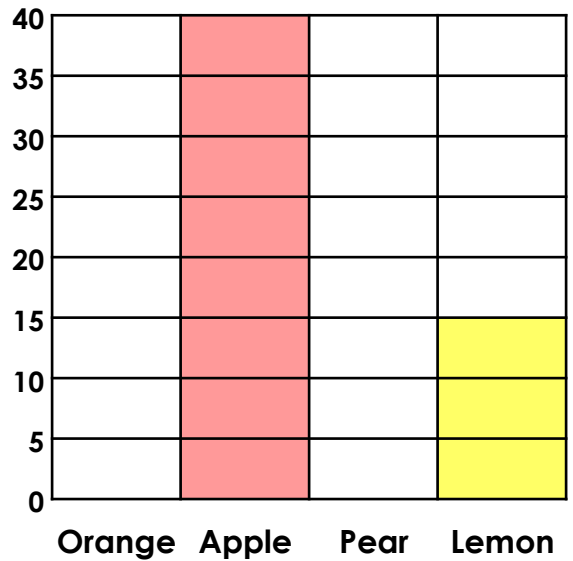
Bar Charts

Bar Charts

4a. Use the information to complete the pictogram and the bar chart.

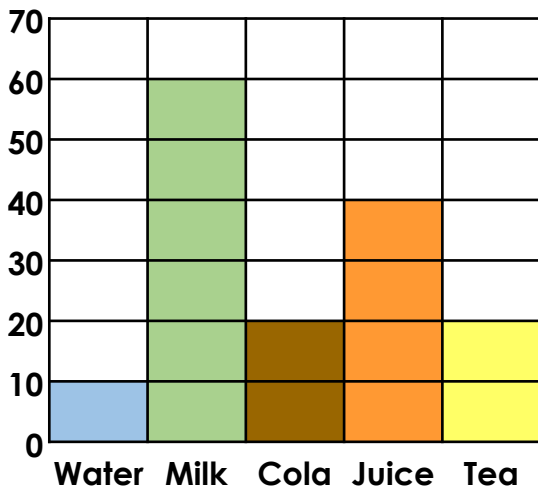
Favourite Fruit	Number of Children
Orange	
Apple	
Pear	
Lemon	

1 piece of fruit = 10 children



3 VF

5a. Use this bar chart to answer the questions about favourite drinks.



A. How many children like cola?

B. How many more children like milk than juice?

C. How many children liked water and tea altogether?

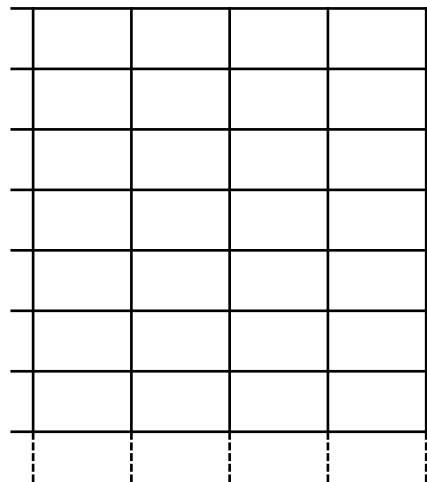
D. How many children were asked in total?



3 VF

6a. Create a bar chart using this tally chart. Write on the correct scale and labels.



Favourite Sports	Number of Children
Swimming	
Football	
Rugby	
Golf	



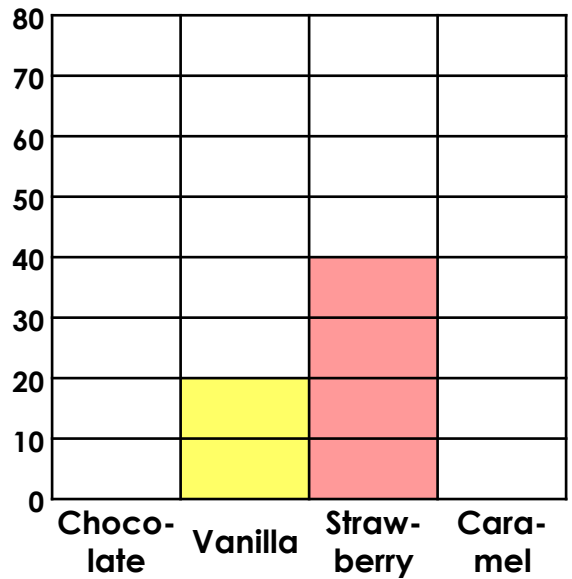
3 VF

Bar Charts

4b. Use the information to complete the pictogram and the bar chart.

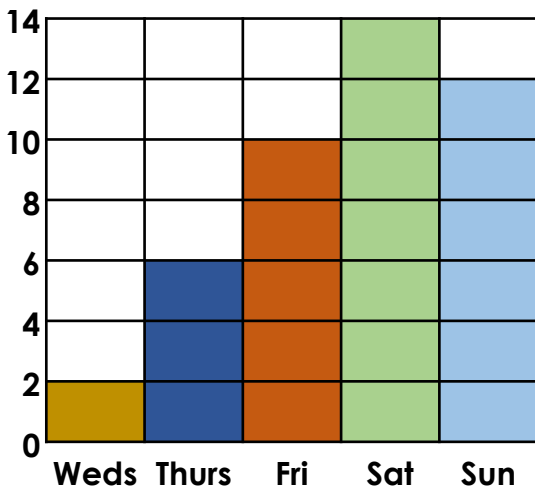
Favourite Ice-cream	Number of Children
Chocolate	
Vanilla	
Strawberry	
Caramel	

1 circle = 5 children



3 VF

5b. Use this bar chart to answer the questions about the number of diners in a restaurant.



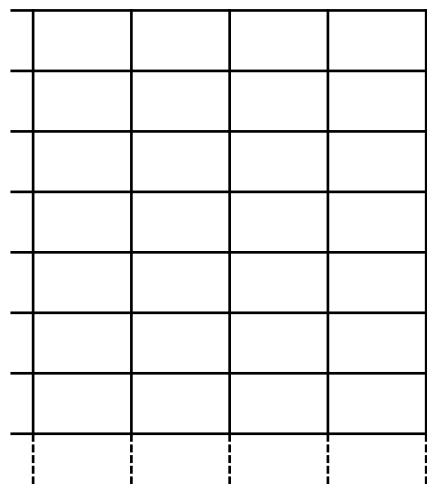
- How many diners were there on Thursday?
- How many fewer diners were there on Wednesday compared to Sunday?
- How many diners were there at the weekend?
- How many diners were there in total?



3 VF

6b. Create a bar chart using this tally chart. Write on the correct scale and labels.

Favourite TV Shows	Number of Children
Drama	
Comedy	
Cartoons	
News	





3 VF

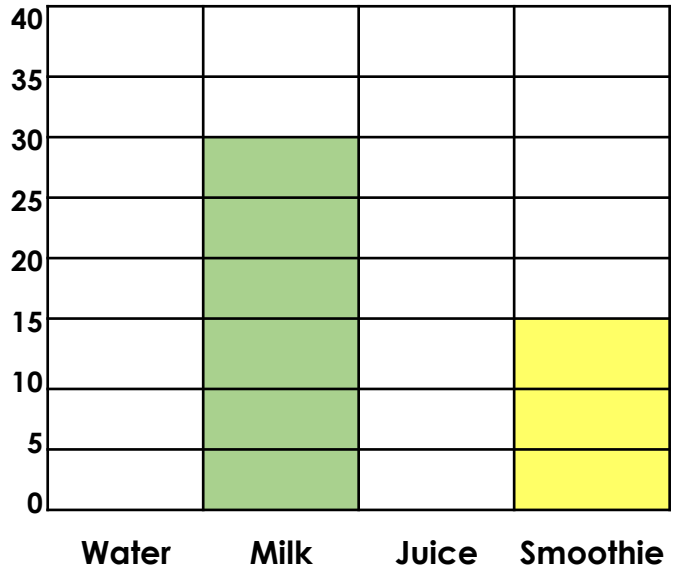
Bar Charts

Bar Charts

7a. Use the information to complete the pictogram and the bar chart.

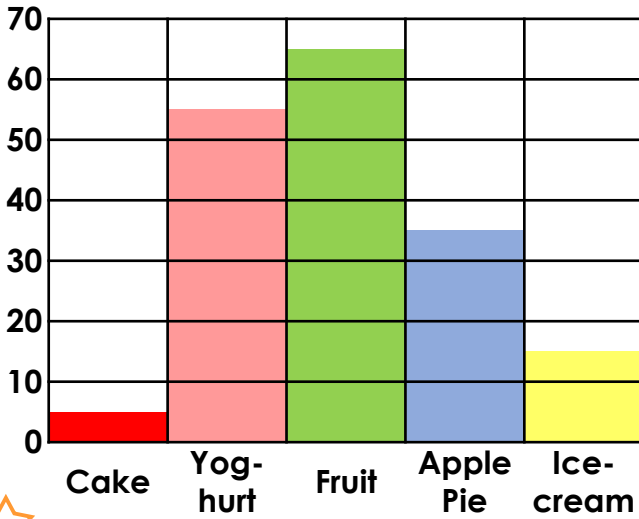
Drinks Sold	Number of Drinks
Water	
Milk	
Juice	
Smoothie	

1 circle = 3 drinks



3 VF

8a. Use this bar chart to answer the questions about desserts sold in a cafe.



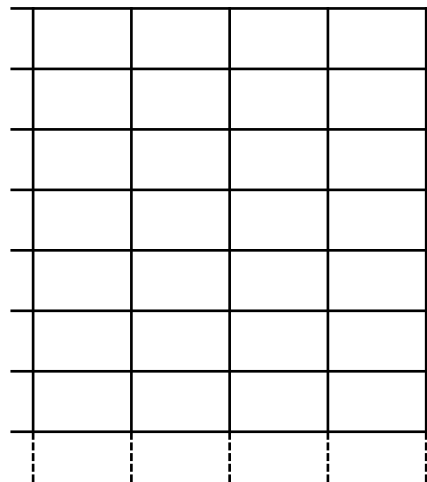
- How many portions of apple pie were sold?
- How many fewer portions of ice-cream were sold than fruit?
- Which dessert was least popular?
- How many portions of dessert were sold in total?



3 VF

9a. Create a bar chart using this tally chart. Write on the correct scale and labels.

Pizzas	Number of Pizzas Sold
Cheese	
Veggie	
Pepperoni	
Tuna	





3 VF

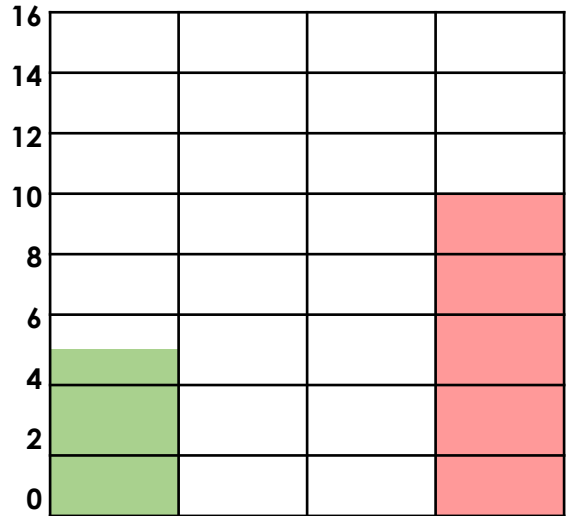
Bar Charts

Bar Charts

7b. Use the information to complete the pictogram and the bar chart.

Shoes	Number of Pairs of Shoes Sold
Sandals	
Boots	
Trainers	
School Shoes	

1 circle = 5 children

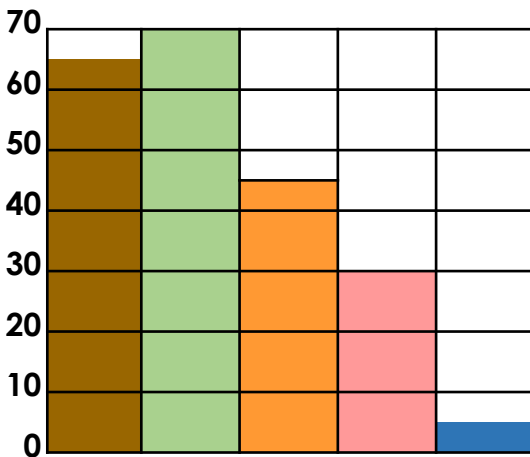


Sandals Boots Trainers School Shoes



3 VF

8b. Use this bar chart to answer the questions about the number of animals on a farm.



Cows Sheep Goats Pigs Ducks

A. How many goats are there?

B. How many fewer ducks are there than pigs?





C. How many four-legged animals are there?

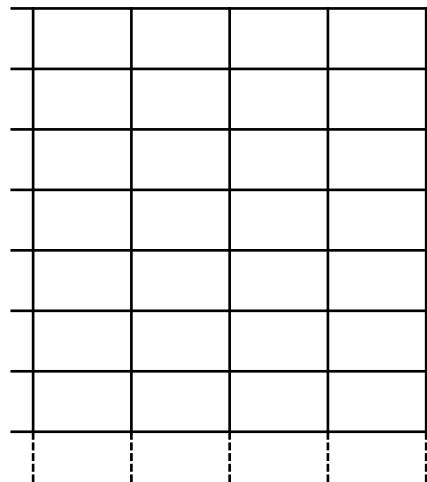
D. How many animals are there in total?



3 VF

9b. Create a bar chart using this tally chart. Write on the correct scale and labels.

Teams	Number of Points Scored
Green	
Blue	
Red	
Purple	



3 VF

Varied Fluency Bar Charts

Developing

- 1a. Accurate, complete bar chart
- 2a. A. Games, B. 50, C. 20, D. 190
- 3a. An accurate, complete bar chart with appropriate scale and labels.

Expected

- 4a. Accurate, complete bar chart
- 5a. A. 20, B. 20, C. 30, D. 150
- 6a. An accurate, complete bar chart with appropriate scale and labels.

Greater Depth

- 7a. Accurate, complete bar chart
- 8a. A. 35, B. 50, C. Cake, D. 175
- 9a. An accurate, complete bar chart with appropriate scale and labels.

Varied Fluency Bar Charts

Developing

- 1b. Accurate, complete bar chart
- 2b. A. Pizza, B. 8, C. 10, D. 46
- 3b. An accurate, complete bar chart with appropriate scale and labels.

Expected

- 4b. Accurate, complete bar chart
- 5b. A. 6, B. 10, C. 26, D. 44
- 6b. An accurate, complete bar chart with appropriate scale and labels.

Greater Depth

- 7b. Accurate, complete bar chart
- 8b. A. 45, B. 25, C. 210, D. 215
- 9b. An accurate, complete bar chart with appropriate scale and labels.