

# Homework/Extension

## Step 6: Block Diagrams

### National Curriculum Objectives:

Mathematics Year 2: (2S1) [Interpret and construct simple pictograms, tally charts, block diagrams and simple tables](#)

Mathematics Year 2: (2S2a) [Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity](#)

Mathematics Year 2: (2S2b) [Ask and answer questions about totalling and comparing categorical data](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Complete the block diagram and table using the given information. Each block represents 1.

**Expected** Complete the block diagram and table using the given information. Each block represents 2, 5 or 10.

**Greater Depth** Complete the block diagram and table using the given information. Each block represents 2, 5 or 10 and some half blocks used. Not all increments marked on the scale.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Identify whether given statements are true or false using the block diagram. Each block represents 1.

**Expected** Identify whether given statements are true or false using the block diagram. Each block represents 2, 5 or 10.

**Greater Depth** Identify whether given statements are true or false using the block diagram. Each block represents 2, 5 or 10 and some half blocks used. Not all increments marked on the scale.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Match the block diagram to the correct data set. Each block represents 1.

**Expected** Match the block diagram to the correct data set. Each block represents 2, 5 or 10.

**Greater Depth** Match the block diagram to the correct statements. Each block represents 2, 5 or 10 and some half blocks used. Not all increments marked on the scale.

More [Year 2 Statistics](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

# Block Diagrams

1. Use the data given to complete the block diagram and table below.

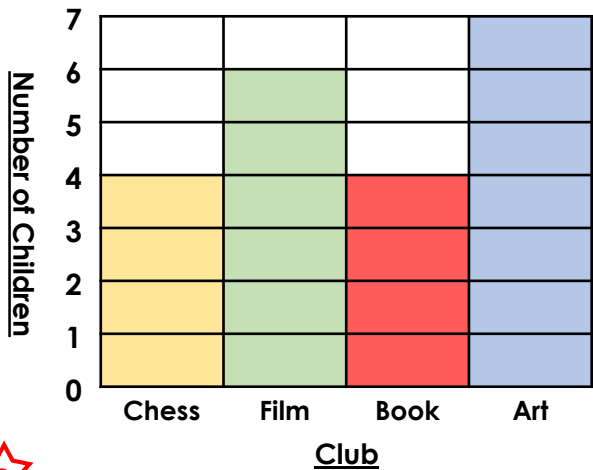


Favourite colour	Number of children
Green	
Brown	2
Yellow	
Red	6



VF  
HW/Ext

2. Use the block diagram to identify whether the statements below are true or false.

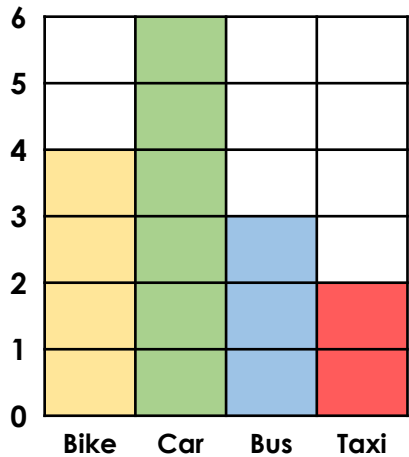


Statement	True or False?
A. The most popular club is Art.	
B. In total, 12 children chose Film or Book club.	
C. In total, 8 children go to Chess or Book club.	
D. The least popular club is Film.	



VF  
HW/Ext

3. Which set of data has been used to complete the block diagram below?



Transport	Number of children
Bike	4
Car	6
Bus	3
Taxi	2

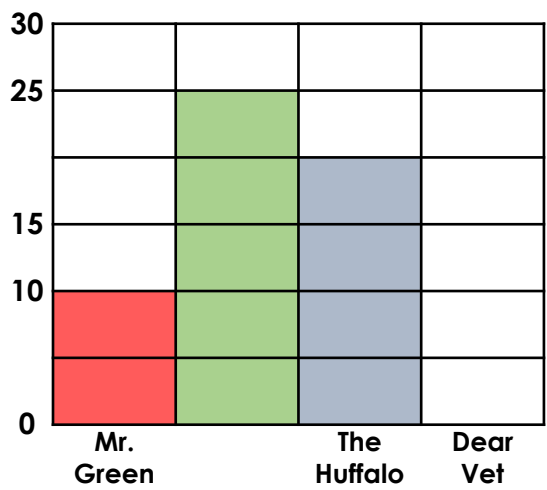
Transport	Number of children
Bike	4
Car	6
Bus	4
Train	2



RPS  
HW/Ext

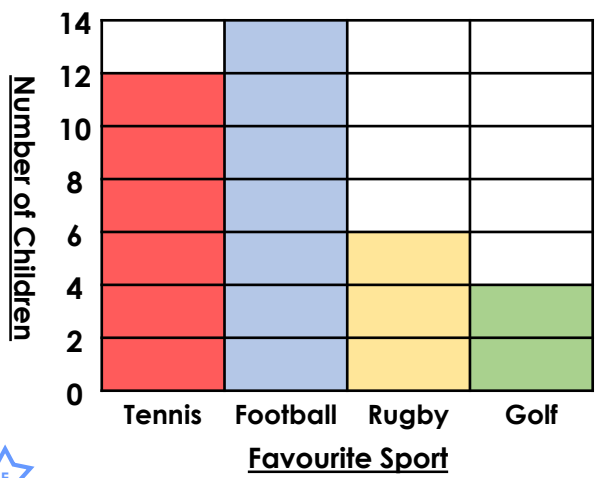
# Block Diagrams

4. Use the data given to complete the block diagram and table below.



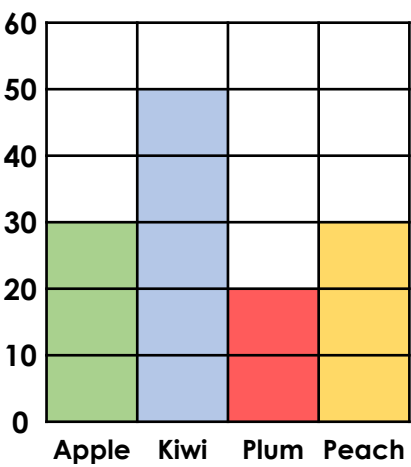
Favourite book	Number of children
Mr. Green	
Barry Trotter	25
Dear Vet	15

5. Use the block diagram to identify whether the statements below are true or false.



Statement	True or False?
A. In total, 12 children chose rugby or golf.	
B. Football is the most popular sport.	
C. 11 children said tennis is their favourite sport.	
D. There are 10 fewer children who liked golf than football.	

6. Which set of data has been used to complete the block diagram below?



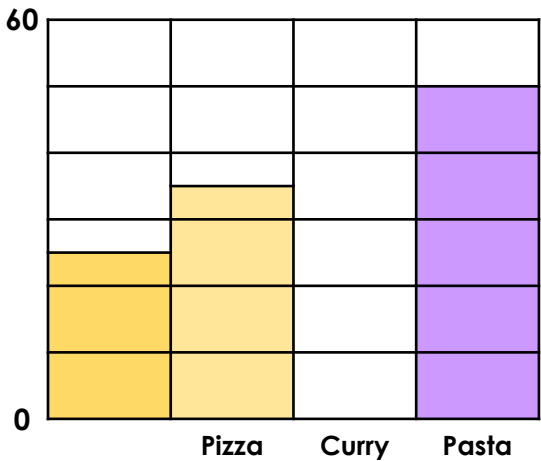
A.	
Fruit	Number of children
Apple	30
Kiwi	50
Plum	30
Peach	40

B.	
Fruit	Number of children
Apple	30
Kiwi	20
Plum	40
Peach	50

C.	
Fruit	Number of children
Apple	30
Kiwi	50
Plum	20
Peach	30

# Block Diagrams

7. Use the data given to complete the block diagram and table below.

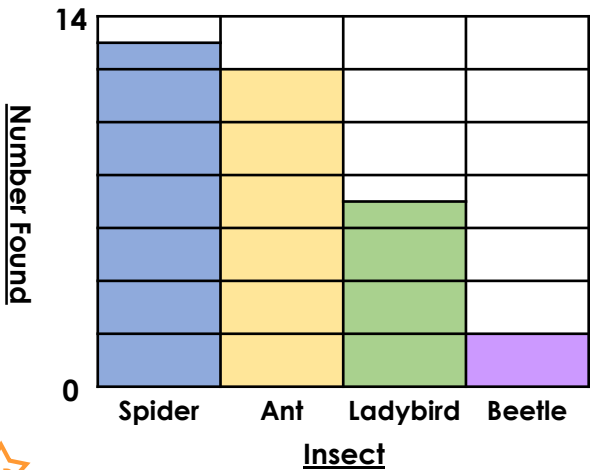


Favourite meal	Number of children
Chilli	
Pizza	
Curry	5
	50



VF  
HW/Ext

8. Use the block diagram to identify whether the statements below are true or false.

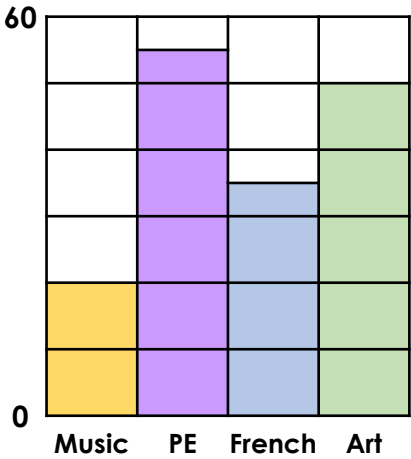


Statement	True or False?
A. 12 spiders were found on the minibeast hunt.	
B. In total, there were 19 ants and ladybirds found.	
C. There were fewer beetles than any other minibeast.	
D. There were 11 fewer beetles than spiders.	



VF  
HW/Ext

9. Which statements match the block diagram below?



A.

The difference between how many children like PE and how many like French is 20.

B.

Art is the most popular lesson. Music is the least popular.

C.

In total, 160 children were asked what their favourite subject is at school.



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# Homework/Extension

## Block Diagrams

### Developing

1.

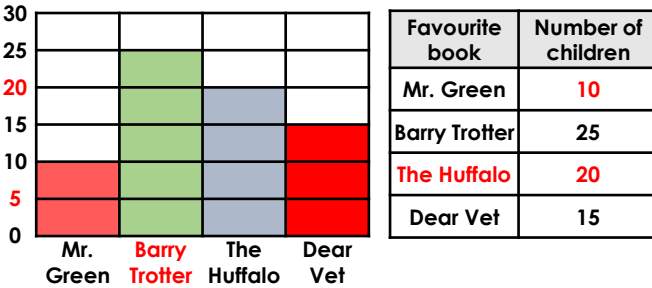


2. **A. True; B. False; C. True; D. False**

3. **A**

### Expected

4.

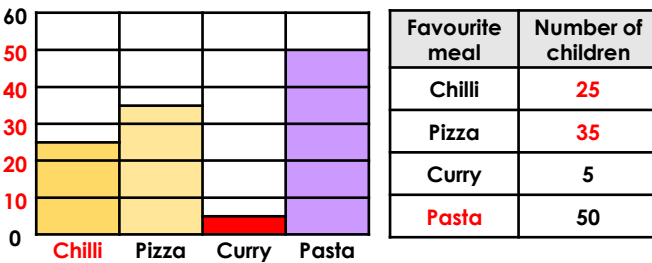


5. **A. False; B. True; C. False; D. True**

6. **C**

### Greater Depth

7.



8. **A. False; B. True; C. True; D. True**

9. **A and C**