# Homework/Extension Step 1: Pictograms

# National Curriculum Objectives:

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

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

# Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Identify the statements that describe the pictogram correctly. Images represented with the value of 1, 2, 5 or 10, no use of half pictures.

**Expected** Identify the statements that describe the pictogram correctly. Pictogram includes half pictures.

Greater Depth Identify the statements that describe the pictogram correctly. Using commutative law to calculate a wider range of multiplication facts. Pictogram includes half and quarter pictures.

Questions 2, 5 and 8 (Varied Fluency)

Developing Read the statements and identify the mistakes made in the pictogram. Images represented with the value of 1, 2, 5 or 10, no use of half pictures.

Expected Read the statements and identify the mistakes made in the pictogram. Pictogram includes half pictures.

Greater Depth Read the statements and identify the mistakes made in the pictogram. Using commutative law to calculate a wider range of multiplication facts. Pictogram includes half and quarter pictures.

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

Developing Investigate the values of the data using the facts given. Images represented with the value of 1, 2, 5 or 10, no use of half pictures.

Expected Investigate the values of the data using the facts given. Pictogram includes half pictures.

Greater Depth Investigate the values of the data using the facts given. Using commutative law to calculate a wider range of multiplication facts. Pictogram includes half and quarter pictures.

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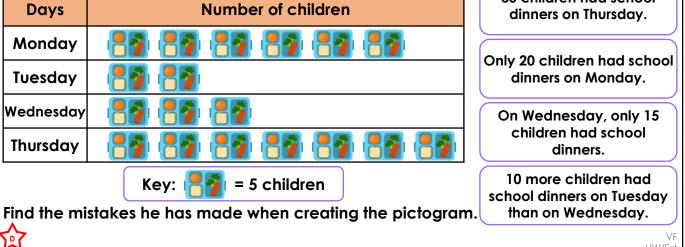




Homework/Extension – Pictograms – Teaching Information

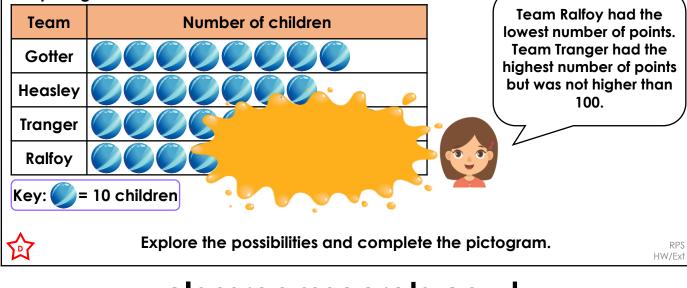
# **Pictograms**

1. Tick the statements that describe the pictogram correctly.					
Class	Number of children	Α.	4 children wear glasses in Beech class.		
Pine	000000	7			
Oak	0000	В.	8 children wear glasses in Cherry Blossom class.		
Beech	$\mathcal{D}\mathcal{D}$	C.	4 more children wear glasses in Cherry Blossom class than Oak		
Cherry Blossom			class. 3 children wear glasses in Pine class.		
VF HW/Ext					
2. Neil has completed the pictogram below using the statements.					
Days Number of children				35 children had school dinners on Thursday.	



HW/Ext

3. Betty is collecting data to identify the total points in each team. She spilt paint on her pictogram but remembers the facts.

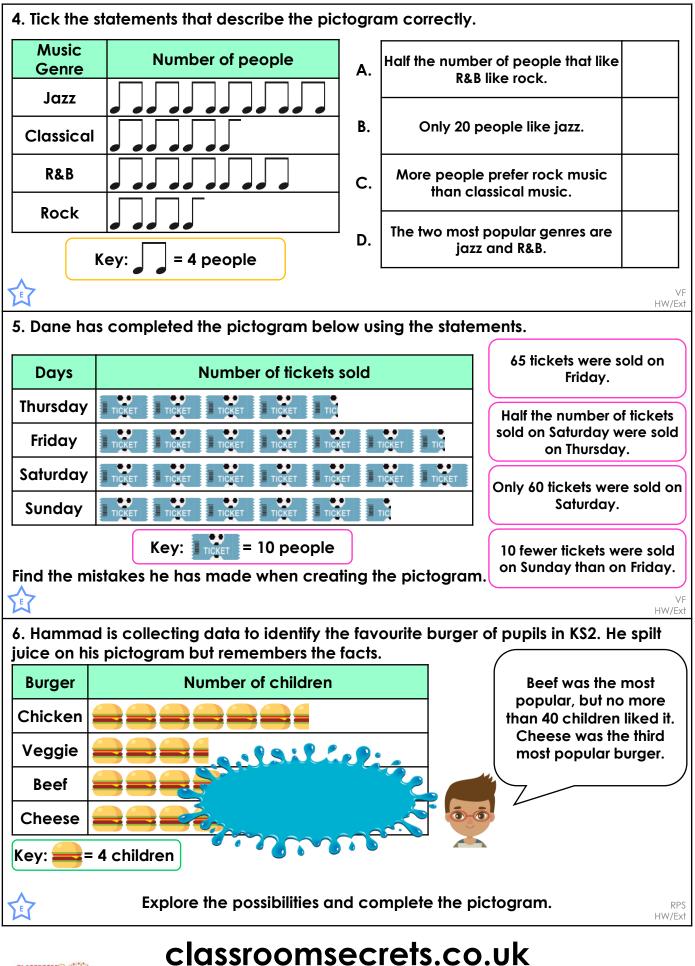


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Homework/Extension – Pictograms – Year 3 Developing

# <u>Pictograms</u>

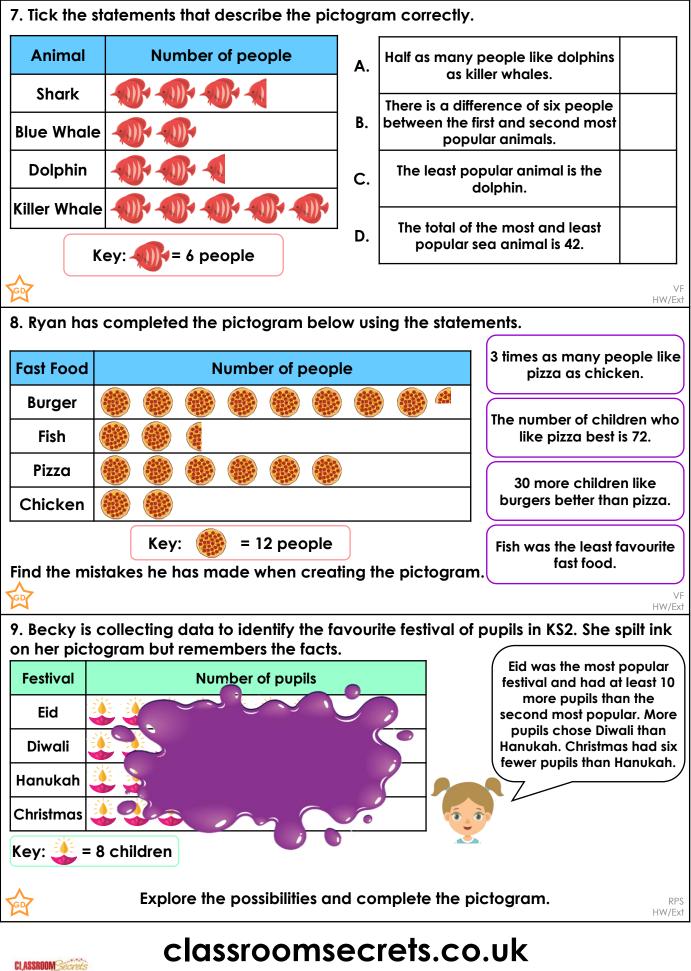


Homework/Extension – Pictograms – Year 3 Expected

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# <u>Pictograms</u>





Homework/Extension – Pictograms – Year 3 Greater Depth

### Homework/Extension <u>Pictograms</u>

#### **Developing**

1. B and C

Neil has made mistakes with Monday and Tuesday's data. 20 children had school dinners on Monday (not 30) and 25 children had school dinners on Tuesday (not 10).
Various answers, for example: Team Ralfoy = 60 and Team Tranger = 90.

#### **Expected**

4. A and D

5. Dane has made mistakes with Thursday and Saturday's data. 60 tickets were sold on Saturday (not 70) and 30 tickets were sold on Thursday (not 45).

6. Various answers, for example: Beef = 38 and Cheese = 20.

#### <u>Greater Depth</u>

7. A and D

8. Ryan has made mistakes with the data for burgers and fish. There should be 102 people for burgers (not 99) and fewer than 24 people for fish (not 30).

9. Various answers, for example: Eid has 60, Diwali has 44, Hanukah has 32 and Christmas has 26.





Homework/Extension – Pictograms ANSWERS