Bar Chars - Answers

Key Stage 2: 2003 Paper B

1.

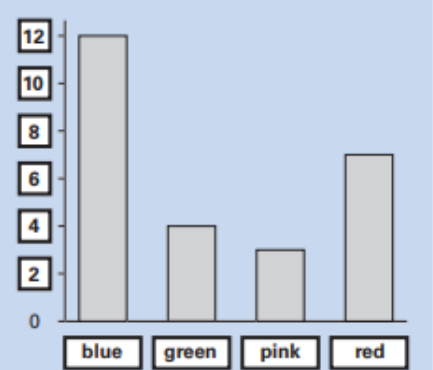| 6a	17	1m	
6b	18	1m	

Key Stage 2: 2004 Paper B

1.

10a	2002	1m	
10b	2000	1m	

Key Stage 2: 2005 Paper A

1.

3a	Vertical axis completed correctly.	1m	
3b	Horizontal axis completed correctly.	1m	*Accept abbreviations or recognisable misspellings.*

Key Stage 2: 2005 Paper B

1.

18a	Answer in the range 14 to 16 inclusive.	1m	
18b	An explanation which recognises that the bar for tomato is shorter than the other two bars added together, eg ■ 'Because there are 300 children altogether and only 135 chose tomato'; ■ 'Because 165 is more than 135'; ■ 'Because double 135 is 270 and there are more children than that altogether'; ■ 'Because half of 300 is 150'; ■ 'Because tomato is less than mushroom add chicken'.	1m U1	*No mark is awarded for writing 'No' alone.* **Do not** *accept vague or arbitrary explanations, eg* ■ *'Because most of the children chose tomato';* ■ *'Because 135 children chose tomato';* ■ *'Because 75 + 135 + 90 = 300'.* *If 'Yes' is circled but a correct, unambiguous explanation is given then award the mark.*

Key Stage 2: 2006 Paper A

1.

17a	6	1m	
17b	An explanation which recognises that a total of 10 children read between 4 and 6 books, eg: ■ '10 children altogether read between 4 and 6 books, and 7 + 1 makes 8, so that leaves 2 children' ■ 'Because 7 add 1 is 8, and you need 2 more' ■ 'Because 10 children read 4 to 6 books' ■ '8 and 2 more make 10 children altogether' ■ '1 + 7 = 8, 8 + 2 = 10'.	1m U1	**Do not** *accept vague or arbitrary explanations, eg:* ■ *'Because 7 and 1 make 8'* ■ *'Because there are 2 children left'.*

Key Stage 2: 2006 Paper B

1.

3a	5	1m	
3b	2	1m	

Key Stage 2: 2007 Paper A

1.

10a	May **AND** October	1m	Answers may be given in either order. Accept unambiguous abbreviations or recognisable misspellings.
10b	4	1m	**Do not** accept a list of months.
10c	7	1m	

Key Stage 2: 2007 Paper B

1.

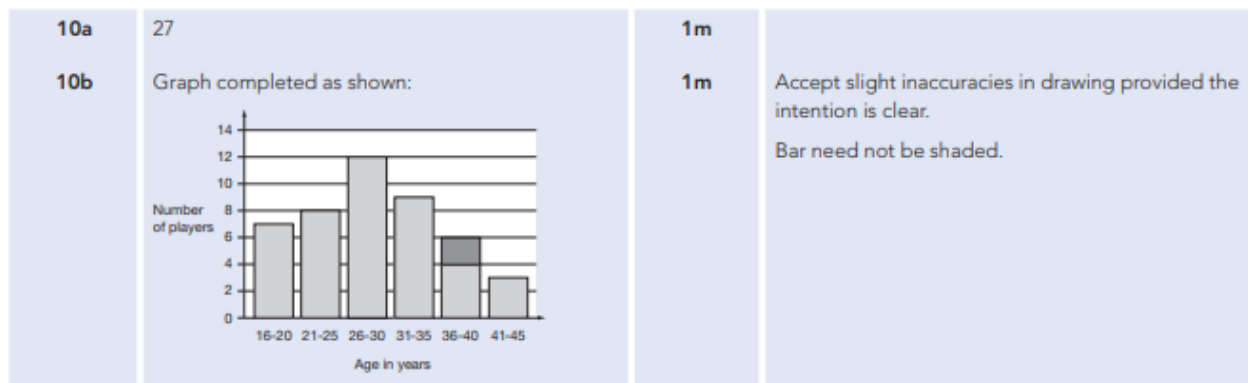| 15a	Swimming	1m	Accept unambiguous abbreviations or recognisable misspellings.
15b	7	1m	
15c	Football **AND** Rounders	1m	Answers may be given in either order. Accept unambiguous abbreviations or recognisable misspellings. **Do not** award the mark if any additional sports are given.

Key Stage 2: 2008 Paper B

1.

6a	30	1m	
6b	Three times circled as shown:	1m	**Do not** award the mark if additional incorrect times are circled. Accept alternative unambiguous indications, eg times ticked, crossed or underlined.

Key Stage 2: 2009 Paper A

1.

10a	27	1m	
10b	Graph completed as shown:	1m	Accept slight inaccuracies in drawing provided the intention is clear. Bar need not be shaded.

Key Stage 2: 2010 Paper B

1.

2a	150	1m	
2b	2	1m	Accept A **AND** D in either order.

Key Stage 2: 2011 Paper B L6

1.

12	Describes the key features of the information	
	2m are available, one from each of the categories A and B below:	
1m	**Category A** States that the rate the mass of the dog increases slows as it gets older eg • They get heavier in their first few months but as they get older their weight doesn't go up as much	✓ **Minimally acceptable explanation** eg, for category A • Grows quickly then more slowly • After a few months the amount it increases by gets smaller [accept any value from 4–8 months inclusive within this type of response] • They start by gaining about 5kg per month but this gets less and less
1m	**Category B** Makes an observation that links the information in the bar chart to the adult mass eg • It reaches adult size after the first year • A dog is about half grown when it is 4 months old	eg, for category B • Doesn't get any fatter after it is a year old • They stop at 12 months • At 6 months, it's more than half-sized eg, for both categories (ie 2m) • It grows quickly then slowly until 12 months when it stops
		! **Values given** As this question is assessing understanding of information presented graphically, condone incorrect numbers for category A, but do not accept for category B eg, for category A, accept • They increase by about 10kg per month but not as much as they get older eg, for category B, do not accept • A dog is about half grown after half a year
(U1)		✗ **Incomplete explanation** eg, for category A • Dogs get heavier as they get older [doesn't say how rate of change alters] eg, for category B • A German Shepherd stops growing when it reaches 35kg [no link to 12 months] • It grows quickly then slowly until 12 months [gains category A mark but no link to full weight being reached for category B]

Key Stage 2: 2011 Paper A

1.

16a	2	1m	**Do not** accept nuts and fruit bar.
16b	4	1m	
16c	banana	1m	Accept unambiguous abbreviations or recognisable misspellings.

Key Stage 2: 2011 Paper B

1.

5a	2.5 **OR** $2\frac{1}{2}$	1m	
5b	5	1m	

Key Stage 2: 2012 Paper A L6

1.

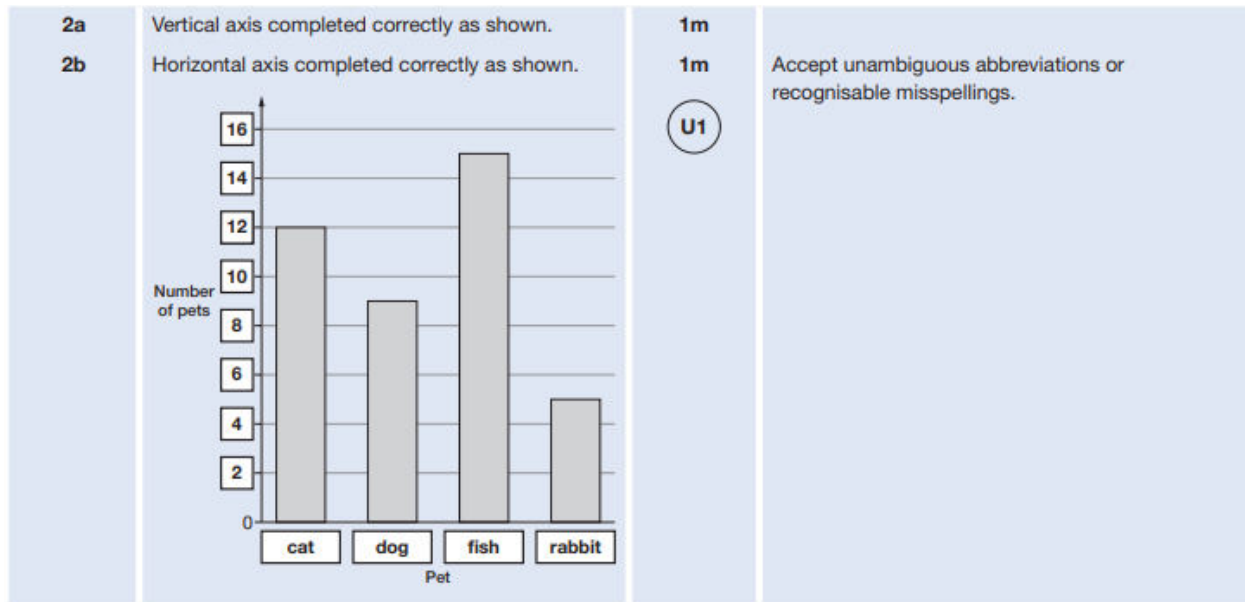| 6	103	2m	
		or	
	Shows a complete correct method with not more than one computational error, eg: • 152 + 197 = 339 (error) 339 – 246 = 93 • 349 – 246 = 97 (error) • 152 + 197 = 349 349 – 246	1m	

Key Stage 2: 2012 Paper B

1.

7a	7	1m	
7b	An explanation which recognises that the bar for summer is not twice as long as the bar for winter, eg: ■ '15 chose summer and 8 chose winter, and 15 is not twice 8' ■ 'An odd number of children chose summer, so it can't be twice as many because children must be a whole number' ■ 'More than half as many chose winter as chose summer' ■ '15 ÷ 2 = $7\frac{1}{2}$ not 8' ■ 'Because summer isn't 16' ■ '8 × 2 = 16, not 15' ■ '15 is 7 away from 8'	1m (U1)	No mark is awarded for circling 'No' alone. **Do not** accept vague or incomplete explanations, eg: ■ '15 chose summer and 8 chose winter' ■ 'More children chose summer than winter'. If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.

Key Stage 2: 2014 Paper B

1.

2a	Vertical axis completed correctly as shown.	1m	
2b	Horizontal axis completed correctly as shown.	1m (U1)	Accept unambiguous abbreviations or recognisable misspellings.

Key Stage 2: 2015 Paper A L6

1.

| 13 | Gives a correct explanation which demonstrates how the graph shows two children could be taller than Alfie, eg:

• One person from the class is 160–169cm. But someone as well as this person could be taller than Alfie. 2 people range from 150–159cm, the other person could be 154, 155, etc | 1m | ✓ **Minimally acceptable explanation,** eg:
• It could be 1.64, 1.56, Alfie
• It depends on how tall the other person in his height group is
• There could be someone between 150–159cm who is taller than Alfie

! **Condone incorrect use of boundary values,** eg:
• One child is in the range 160cm–169cm. Don't know how tall the other child between 150cm and 159cm is

✗ **Incomplete or incorrect explanation,** eg:
• There is 1 child in the range 150cm–159cm taller than Alfie
• There could be two children taller than Alfie |

Key Stage 2: 2015 Paper A

1.

9a	£7		1m	Accept an answer in the range £6.75 to £7.25 inclusive.
9b	4		1m	**Do not** accept a list of classes.