Frequency Tables-Answers

Key Stage 3: 2003 Paper2 Level 3-5

1.

Tier & Question						Correct response	Additional guidance
3-5	4-6	5-7	6-8			**School uniform**	
7	2					Correct response	Additional guidance
a	a			1m		54	
b	b			1m		16	
c	c			2m		Gives all three correct values correctly positioned, ie 10, 20, 10	
				or 1m		Gives any two correct values correctly positioned or Gives three values that sum to 40, one of which is correct and correctly positioned or Gives the correct value for No, ie 20, and gives values for Yes and Don't know that are the same eg ■ 5, 20, 5	
d	d			1m (U1)		Gives two labels in the two boxes of either the first row or the first column specifying sex and gives two labels in the two boxes of either the first row or the first column specifying yes or no, or other mutually exclusive labels that address the question eg, for sex ■ Boys, girls ■ Female, male ■ G, B eg, for yes or no ■ Yes, no ■ ✓, ✗ ■ N, Y ■ Have a pet, Do not have a pet	

2.

		Correct response	Additional guidance
3m		£ 5.65	
or **2m**		Shows the digits 565 eg • 56.50	
		or	
		Shows the values 11.15 and 16.8(0)	! *Values or differences shown in working in pence, without units given* Accept for 2m, provided both values or all differences are in pence
		or	
		Shows one of the values 11.15 or 16.8(0), then follows through using their incorrect value to give their correct saving eg • 11.15 before, 4.90 + 3.50 + 3.50 + 4.90 = *14.80 (error)* after, 14.80 − 11.15 = 3.65	
		or	
		Shows the correct difference for each category eg • 1.7, 1, 1.95 • 1.7 + 2 × 1 + 1.95	
		or	
		Shows the correct difference for two of the categories, then follows through using their incorrect difference to give their correct saving eg • 1.7 + 1 + 1 + *1.85 (error)* = 5.55	
		or	
		Shows the value £ 4.65 (from calculating using one child, rather than two)	

Tier & Question					Correct response	Additional guidance
3-5	4-6	5-7	6-8			
9	3					

				or 1m	Shows any of the following:	
					Digits 1115	
					or	
					Digits 168(0)	
					or	! *Values or differences shown in working in pence, without units given* Accept for 1m
					Any two of the correct differences 1.7(0), 1, 1.95	
					or	
					Digits 465 (from calculating using one child, rather than two)	
					or	
					The values 8.65 and 13.3(0) (from calculating using one child, rather than two)	
				U1		

Key Stage 3: 2003 Paper 2 Level 4-6

3.

Tier & Question						Correct response	Additional guidance
3-5	4-6	5-7	6-8				
7	2						
a	a			1m	54		
b	b			1m	16		
c	c			2m	Gives all three correct values correctly positioned, ie 10, 20, 10		
				or			
				1m	Gives any two correct values correctly positioned		
					or		
					Gives three values that sum to 40, one of which is correct and correctly positioned		
					or		
					Gives the correct value for No, ie 20, and gives values for Yes and Don't know that are the same eg ■ 5, 20, 5		
d	d			1m	Gives two labels in the two boxes of either the first row or the first column specifying sex and gives two labels in the two boxes of either the first row or the first column specifying yes or no, or other mutually exclusive labels that address the question eg, for sex ■ Boys, girls ■ Female, male ■ G, B eg, for yes or no ■ Yes, no ■ ✓, ✗ ■ N, Y ■ Have a pet, Do not have a pet		
				(U1)			

4.

3m	£ 5.65	
or **2m**	Shows the digits 565 eg • 56.50	! *Values or differences shown in working in pence, without units given* Accept for 2m, provided both values or all differences are in pence

or

Shows the values 11.15 and 16.8(0)

or

Shows one of the values 11.15 or 16.8(0), then follows through using their incorrect value to give their correct saving
eg
  • 11.15 before,
    $4.90 + 3.50 + 3.50 + 4.90 = 14.80$ *(error)*
    after,
    $14.80 - 11.15 = 3.65$

or

Shows the correct difference for each category
eg
  • 1.7, 1, 1.95
  • $1.7 + 2 \times 1 + 1.95$

or

Shows the correct difference for two of the categories, then follows through using their incorrect difference to give their correct saving
eg
  • $1.7 + 1 + 1 + 1.85$ *(error)* $= 5.55$

or

Shows the value £ 4.65 (from calculating using one child, rather than two)

Tier & Question					Admission (cont)	
3-5	4-6	5-7	6-8			
9	3				Correct response	Additional guidance
				or 1m	Shows any of the following: Digits 1115 or Digits 168(0) or Any two of the correct differences 1.7(0), 1, 1.95 or Digits 465 (from calculating using one child, rather than two) or The values 8.65 and 13.3(0) (from calculating using one child, rather than two) (U1)	! Values or differences shown in working in pence, without units given Accept for 1m

Key Stage 3: 2005 Paper 1 Level 3-5

5.

Tier & Question					Average heights	
3-5	4-6	5-7	6-8			
1					Correct response	Additional guidance
a				1m	133	
b				1m	7	

Key Stage 3: 2006 Paper 2 Level 3-5

6.

Tier & Question					Tennis	
3-5	4-6	5-7	6-8			
6					**Correct response**	**Additional guidance**
a			1m	3		
b			1m	Ed		✓ *Unambiguous indication* eg • E
c			1m (U1)	Gives a correct explanation that one person cannot play against themselves eg ▪ You can't play against yourself ▪ It's where each person is matched with themselves, so there is no game ▪ It's Ann v Ann, Bob v Bob etc and that's impossible ▪ There are five people so only four possible games each	✓ *Minimally acceptable explanation* eg • It's a person matched with themselves • It's Ann v Ann • There are only four possible games each ✗ *Incomplete explanation* eg • There can't be a game • They didn't play • It's impossible

Key Stage 3: 2009 Paper 2 Level 4-6

7.

Tier & Question					Rainfall	
3-5	4-6	5-7	6-8	Mark	**Correct response**	**Additional guidance**

	20	11	2	2m
				
				 or
				 1m
				
				 (U1)
					Indicates place A
					 and
					 gives a correct justification
					 eg
					 • $10 \times 8 + 20 \times 4 = 160$cm
					    $5 \times 10 + 50 \times 2 = 150$cm
					 • $(80 + 80) \div 12 = 13.(...)$cm per month
					    $(50 + 100) \div 12 = 12.5$cm per month
					 • $(80 + 80) \div 2 = 80$cm per 6 months
					    $(50 + 100) \div 2 = 75$cm per 6 months
					
					 or
					
					 Gives a correct justification, even if the decision is incorrect or omitted
					
					 or
					
					 Shows a complete correct method with not more than one computational error, and follows through to make their correct decision
					 eg
					 • $10 \times 8 + 20 \times 4 = 120$ (error)
					    $5 \times 10 + 50 \times 2 = 150$, so place B
						✓ **For 2m, minimally acceptable justification**
						 eg
						 • 160, 150 seen
						 • 80, 80 and 50, 100 seen
						 • $10 \times 8 + 20 \times 4 > 5 \times 10 + 50 \times 2$
						 • 13.(...), 12.5 seen

Key Stage 3: 2010 Paper 1 Level 3-5

8.

Tier & Question						Light bulbs
3-5	4-6	5-7	6-8			
1				Mark	Correct response	Additional guidance
a				1m	40 and 60, in either order	
b				1m	Coloured	✓ Unambiguous indication eg • C

Key Stage 3: 2010 Paper 2 Level 3-5

9.

Tier & Question						Class table
3-5	4-6	5-7	6-8			
1				Mark	Correct response	Additional guidance
a				1m	D and G in either order	✓ Unambiguous indication of class names
b				1m	B and E in either order	! Year group included in response eg, for part (c)
c				1m	F	• 7F Ignore even if the year group is incorrect

10.

Tier & Question						Home delivery
3-5	4-6	5-7	6-8			
12	2			Mark	Correct response	Additional guidance
a	a			1m	£ 5.99	
b	b			1m	£ 24.95	
c	c			1m	£ 3.99	

11.

Tier & Question 3-5 4-6 5-7 6-8			Mark	Correct response	Additional guidance
23	12	4			
a	a	a	1m	Song Thrush	✓ Unambiguous indication of name eg • S
b	b	b	1m (U1)	Indicates No and gives a correct explanation eg • The Ring Ouzel has bigger eggs than two bigger birds • The Blackbird has smaller eggs than a smaller bird • The Fieldfare has smaller eggs than a smaller bird • Ring Ouzel has the second biggest eggs but is only the fourth biggest in size • The average egg lengths are not in order of size in the table	✓ Minimally acceptable explanation eg • Ring Ouzel has big eggs • Blackbird has smaller eggs than Ring Ouzel • Fieldfare has smaller eggs than Ring Ouzel • The 4th bird down the size table has bigger eggs than the one above it • 30 is bigger than 29 ✗ Incomplete or incorrect explanation eg • Doesn't work for the Blackbird • The Fieldfare doesn't follow this rule • Ring Ouzel has 30mm eggs

Key Stage 3: 2010 Paper 2 Level 4-6

12.

Tier & Question 3-5 4-6 5-7 6-8		Mark	Correct response	Additional guidance
12	2			
a	a	1m	£ 5.99	
b	b	1m	£ 24.95	
c	c	1m	£ 3.99	

13.

Tier & Question 3-5 4-6 5-7 6-8			Mark	Correct response	Additional guidance
23	12	4			
a	a	a	1m	Song Thrush	✓ Unambiguous indication of name eg • S
b	b	b	1m (U1)	Indicates No and gives a correct explanation eg • The Ring Ouzel has bigger eggs than two bigger birds • The Blackbird has smaller eggs than a smaller bird • The Fieldfare has smaller eggs than a smaller bird • Ring Ouzel has the second biggest eggs but is only the fourth biggest in size • The average egg lengths are not in order of size in the table	✓ Minimally acceptable explanation eg • Ring Ouzel has big eggs • Blackbird has smaller eggs than Ring Ouzel • Fieldfare has smaller eggs than Ring Ouzel • The 4th bird down the size table has bigger eggs than the one above it • 30 is bigger than 29 ✗ Incomplete or incorrect explanation eg • Doesn't work for the Blackbird • The Fieldfare doesn't follow this rule • Ring Ouzel has 30mm eggs

Key Stage 3: 2011 Paper 1 Level 4-6

14.

Tier & Question				Interpreting
4–6	5–7			
1		Mark	Correct response	Additional guidance
		1m	Gives a correct interpretation eg • Girls with blue eyes • Girls that do not have brown eyes	
		1m	Gives a correct interpretation eg • Girls in total • Girls with brown eyes and blue eyes • Girls • That are not boys • 15 girls, 7 with brown eyes and 8 with blue	✗ Reference to girls omitted eg • Brown eyes and blue eyes ! Reference only to component parts Condone eg • 7 girls with brown eyes and 8 with blue (no linking to 15)
		1m	Gives a correct interpretation eg • Pupils altogether • Girls and boys • Boys and girls with brown eyes and boys and girls with blue eyes • Children	✓ Reference to boys and/or girls omitted eg • Altogether • All of them • Brown eyes and blue eyes

15.

Tier & Question				Tests
4–6	5–7			
20	11	Mark	Correct response	Additional guidance
a	a	1m	(Student) G	✓ Unambiguous indication
b	b	2m or 1m	32, 33, 34, 35 or 36 or A range that uses two of these values eg • 33–34 • 32 to 36 31 or 37 or A decimal number between 32 and 36	✗ Decimal number For 2m, the answer must be a whole number ✓ For 1m range given eg • 31–35 • 36–37