Non-calculator exam questions

MARK SCHEME

Money

Foundation tier | **Total marks: 50**

Marks

M Method mark, for a correct method. It can be implied by a correct answer.

A Accuracy mark, for a correct answer. It needs the method mark before it.

B A mark for a correct value or statement, with or without working.

ft Follow through: the mark is given for using an earlier wrong answer correctly.

oe Or equivalent.

[a, b] Any value from a to b inclusive.

Questions

Q	Skill	Spec	Tier	Grade	Calculator	Marks
1	Coins: a total, then an exact amount	N13	Foundation	1	No	2
2	Change in the fewest notes and coins	N13 N2	Foundation	2	No	3
3	Totals and change from a price list	N2	Foundation	2	No	3
4	How many can you buy, and the money left	N2	Foundation	2	No	2
5	Change: who spent more	N2	Foundation	3	No	3
6	Bills: finding the mistake	N2	Foundation	3	No	3
7	Working backwards to the price of one	N2 N3	Foundation	3	No	2
8	Bills over time: monthly against yearly	N2	Foundation	3	No	3
9	Bank statements: balances below zero	N2 N13	Foundation	3	No	4
10	Sharing a cost	N2	Foundation	3	No	3
11	Estimating: is there enough money?	N14 N2	Foundation	3	No	2
12	Thresholds: free delivery	N2	Foundation	3	No	3
13	Coins: equal numbers of two coins	N2 N13	Foundation	4	No	3
14	Special offers	N2	Foundation	4	No	4
15	Offers: the cheapest way to buy tickets	N2	Foundation	4	No	3
16	Bills over time: when a pass is cheaper	N2	Foundation	4	No	3
17	Fixed charge and a rate: comparing two plans	N2	Foundation	5	No	4
	Total					**50**

Question 1

N13 · Foundation · Grade 1 · 2 marks

Q	Answer	Mark	Comments
1(a)	**£3.57**	B1	
1(b)	**50p + 50p + 20p + 10p + 5p**	B1	

Question 2

N13 N2 · Foundation · Grade 2 · 3 marks

Q	Answer	Mark	Comments
2	100 − 52.35	M1	may be implied by notes and coins worth £47.65
	£47.65	A1	seen, or the table worth £47.65
	£20 × 2, £5 × 1, £2 × 1, 50p × 1, 10p × 1, 5p × 1	B1ft	the fewest notes and coins (7) for their change

Question 3

N2 · Foundation · Grade 2 · 3 marks

Q	Answer	Mark	Comments
3(a)	2 × 4.85 or 9.70	M1	oe
	£16.10	A1	
3(b)	**£3.90**	B1ft	ft 20 − their (a)

Question 4

N2 · Foundation · Grade 2 · 2 marks

Q	Answer	Mark	Comments
4(a)	**7**	B1	
4(b)	**45p**	B1ft	accept £0.45; ft 500 − 65 × their (a)

Question 5

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
5	20 − 6.35 or £13.65	M1	or M2 for (20 − 10) − (6.35 − 1.70) oe
	10 − 1.70 or £8.30	M1	
	Ellis by £5.35	A1	from a correct method

Question 6

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
6	4 × 1.80 = 7.20 (so 6.20 is the mistake)	B1	
	14.90 + 7.95 + their 7.20, or 29.05 + 1.00	M1	oe
	£30.05	A1	

Question 7

N2 N3 · Foundation · Grade 3 · 2 marks

Q	Answer	Mark	Comments
7	13.75 − 2.95 or 10.80	M1	
	£2.70	A1	

Question 8

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
8	9.95 × 12 or £119.40	M1	oe, e.g. 10 × 12 − 0.05 × 12
	their 119.40 − 99	M1	or M2 for (9.95 − 99 ÷ 12) × 12, i.e. 1.70 × 12
	£20.40	A1	

Question 9

N2 N13 · Foundation · Grade 3 · 4 marks

Q	Answer	Mark	Comments
9(a)	**60.75, 247.15 and −27.85**	B3	B2 for two correct, B1 for one correct (ft their previous balance); accept 27.85 marked OD or DR
9(b)	**The account is overdrawn, or she owes the bank money**	B1	oe, e.g. she has spent more than she had; the amount is not needed

Question 10

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
10	(486 + 39) ÷ 6 or £87.50	M1	oe
	35 ÷ 2 or 17.50	M1	
	£105.00	A1	accept £105

Question 11

N14 N2 · Foundation · Grade 3 · 2 marks

Q	Answer	Mark	Comments
11	20 × 4 or 21 × 4	M1	oe
	80 (or 84) and a conclusion that this is less than £100	A1	21 × 3.95 = 82.95 worked out exactly, with no estimate, scores 0

Question 12

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
12(a)	**£40.15**	B1	
12(b)	40.70 − their (a), or 4.50 − 3.95	M1	oe
	55p or £0.55	A1	

Question 13

N2 N13 · Foundation · Grade 4 · 3 marks

Q	Answer	Mark	Comments
13	20 + 50 = 70	**M1**	oe, the value of one coin of each
	1470 ÷ 70 or 21	**M1**	oe, e.g. 14.70 ÷ 0.70
	42	**A1**	

Question 14

N2 · Foundation · Grade 4 · 4 marks

Q	Answer	Mark	Comments
14	5 × 2.60 or 13.00	**M1**	oe, paying for 5 notebooks
	0.90 + 0.45 or 1.35 or 2.70	**M1**	oe, the cost of the pens with the offer
	their 13.00 + their 2.70	**M1**	both offers used
	£15.70	**A1**	

Question 15

N2 · Foundation · Grade 4 · 3 marks

Q	Answer	Mark	Comments
15	a correct cost for one way to buy the tickets	**M1**	e.g. 3 × 8.75 + 4 × 5.40 = £47.85
	24 + 8.75 + 2 × 5.40	**M1**	oe
	£43.55	**A1**	

Question 16

N2 · Foundation · Grade 4 · 3 marks

Q	Answer	Mark	Comments
16	6.50 × 6 = 39 or 6.50 × 7 = 45.50	**M1**	or 45 ÷ 6.50 = 6.9...
	39 and 45.50 both compared with 45	**M1**	or 6.9... rounded up
	7	**A1**	

Question 17

N2 · Foundation · Grade 5 · 4 marks

Q	Answer	Mark	Comments
17(a)	25 × 0.18 = 4.50 and 2.40 + 25 × 0.12 = 5.40	**M1**	oe
	Shop A by 90p	**A1**	accept £0.90
17(b)	240 ÷ 6, or 18n = 240 + 12n, or correct trials either side of 40	**M1**	oe, e.g. 30 photos: £5.40 against £6.00
	40	**A1**	

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