Calculator exam questions

MARK SCHEME

Money

Foundation tier | **Total marks: 53**

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	How many packs to buy, and the cost	N2	Foundation	3	Yes	3
2	Paying in instalments	N2	Foundation	3	Yes	3
3	Fuel: pence for each litre	N13 N2 N15	Foundation	3	Yes	4
4	Saving up: how many weeks	N2	Foundation	3	Yes	3
5	Wages: time and a half	N2	Foundation	4	Yes	3
6	Wages: a salary against an hourly rate	N2	Foundation	4	Yes	3
7	Bills: meter readings and a standing charge	N13 N2 N15	Foundation	4	Yes	4
8	Budgets: is there enough money?	N2	Foundation	4	Yes	4
9	Bills over time: three ways to pay	N2	Foundation	4	Yes	4
10	Payslips: working back to the hours	N2	Foundation	4	Yes	3
11	Covering costs: setting a price	N2	Foundation	4	Yes	4
12	Raising money: rates and fixed amounts	N2	Foundation	4	Yes	6
13	Profit: costs and income	N2	Foundation	5	Yes	5
14	Takings: how many of each size	N2	Foundation	5	Yes	4
	Total					**53**

Question 1

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
1	315 × 2 ÷ 40 or 15.75	M1	oe
	16 × 2.35	M1	their 15.75 rounded up to a whole number of packs
	£37.60	A1	

Question 2

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
2	12 × 43.75 or 525	M1	
	60 + 525 − 549	M1	oe
	£36.00	A1	accept £36

Question 3

N13 N2 N15 · Foundation · Grade 3 · 4 marks

Q	Answer	Mark	Comments
3(a)	38.6 × 145.9 or 5631.74, or 38.6 × 1.459	M1	oe
	£56.32	A1	
3(b)	5000 ÷ 145.9 or 50 ÷ 1.459 or 34.27...	M1	oe
	34.3	A1	

Question 4

N2 · Foundation · Grade 3 · 3 marks

Q	Answer	Mark	Comments
4	389.99 − 85 or 304.99	M1	or a week by week count reaching 389.99
	their 304.99 ÷ 17.50 or 17.4...	M1	oe
	18	A1	17 scores M2 A0

Question 5

N2 · Foundation · Grade 4 · 3 marks

Q	Answer	Mark	Comments
5	10.5 × 11.90 or 124.95	M1	oe, or M2 for 22.5 × 11.90
	11.90 × 1.5 × 8 or 17.85 × 8 or 142.80	M1	oe
	£267.75	A1	

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Question 6

N2 · Foundation · Grade 4 · 3 marks

Q	Answer	Mark	Comments
6	12.45 × 37 or 460.65	M1	or 37 × 52 = 1924, or 23 868 ÷ 52 = 459
	12.45 × 37 × 52 or 23 953.80	M1	oe, or (460.65 − 459) × 52
	Job B by £85.80	A1	

Question 7

N13 N2 N15 · Foundation · Grade 4 · 4 marks

Q	Answer	Mark	Comments
7	24 509 − 23 617 or 892	M1	
	892 × 26.38 or 23 530.96, or 91 × 48.7 or 4431.7	M1	oe in pounds
	(23 530.96 + 4431.7) ÷ 100	M1	oe, all in pounds or all in pence
	£279.63	A1	279.6266... seen, then rounded wrongly: M3 A0

Question 8

N2 · Foundation · Grade 4 · 4 marks

Q	Answer	Mark	Comments
8	5 × 170 ÷ 60 or 14.16... or 14.2	M1	oe, or 125 − 18.95 = 106.05
	15 × 7.40 or 111	M1	their bags rounded up to a whole number, or 106.05 ÷ 7.40 = 14.3...
	their 111 + 18.95	M1	or 14 bags hold 840 litres, less than 850
	No with £129.95	A1	or £4.95 more needed, or 14 bags are not enough

Question 9

N2 · Foundation · Grade 4 · 4 marks

Q	Answer	Mark	Comments
9	3.80 × 5 × 38 or 722	M1	oe, or 3.80 × 5 = 19 a week
	16.50 × 38 or 627	M1	oe, or 570 ÷ 38 = 15 a week
	their 627 − 570	M1	or (16.50 − 15) × 38
	Yearly pass, by £57	A1	from a correct comparison of all three

Question 10

N2 · Foundation · Grade 4 · 3 marks

Q	Answer	Mark	Comments
10	52.40 + 21.96 + 14.46 or 88.82	M1	oe
	(389.68 + their 88.82) ÷ 12.76, or 478.50 ÷ 12.76	M1	oe, or a trial: a number of hours × 12.76 − their 88.82
	37.5	A1	accept 37½ or 37 hours 30 minutes

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Question 11 N2 · Foundation · Grade 4 · 4 marks

Q	Answer	Mark	Comments
11	128 × 14.75 or 1888	**M1**	or 1450 + 285 or 1735
	1450 + 285 + their 1888 or 3623	**M1**	or their 1735 ÷ 128 or 13.55...
	their 3623 ÷ 128 or 28.30...	**M1**	or their 13.55... + 14.75, or trials 28 × 128 = 3584 and 29 × 128 = 3712 compared with 3623
	£29	**A1**	£28.30 or £28 scores M3 A0

Question 12 N2 · Foundation · Grade 4 · 6 marks

Q	Answer	Mark	Comments
12(a)	46 × 0.75 and 46 × 1.20, or 46 × 1.95 or 89.70	**M1**	oe
	14 × 2.50 or 35	**M1**	
	£124.70	**A1**	
12(b)	150 − 35 − 46 × 0.75 or 80.50	**M1**	oe, or 150 − 35 = 115 and 115 ÷ 46 = 2.50
	their 80.50 ÷ 46	**M1**	or 2.50 − 0.75
	£1.75	**A1**	accept 175p

Question 13 N2 · Foundation · Grade 5 · 5 marks

Q	Answer	Mark	Comments
13(a)	33 × 4.50 or 148.50	**M1**	
	32 + 40 × 1.85 or 106	**M1**	oe; costing only the 33 bars sold (33 × 1.85, giving £55.45) is M0
	£42.50	**A1**	
13(b)	106 ÷ 4.50 or 23.5... or 23 × 4.50 = 103.50 and 24 × 4.50 = 108	**M1**	ft their 106
	24	**A1**	

Question 14 N2 · Foundation · Grade 5 · 4 marks

Q	Answer	Mark	Comments
14	214 × 3.40 or 727.60	**M1**	or 214 × 4.65 or 995.10, or a trial with its takings worked out correctly
	835.10 − 727.60 or 107.50	**M1dep**	or 995.10 − 835.10 or 160.00, or a second trial closer to £835.10
	their 107.50 ÷ (4.65 − 3.40) or ÷ 1.25	**M1**	or their 160.00 ÷ 1.25 = 128 small, or a trial giving £835.10
	86	**A1**	128 (the small smoothies) scores M3 A0

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