

# Money Problems

# November 2024 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
6	20	P1  P1  A1	for $30 + 45 \times 10 (= 480)$ or $50 \times 10 - 45 \times 10 (= 50)$ or $50 \times 10 - 30 (= 470)$  for $50 \times 10 - "480"$  cao  SCB1 for answer 250 or $-250$ if P0 scored.	P1P1 for $500 - 450 - 30$ may be seen in stages



## November 2023 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
6	12.5(0)	M1 A1	for $50 \div 4$ cao	



## November 2022 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
7	49.01	P1	for process to work with the number of miles, eg $12845 - 12468 (= 377)$ <b>or</b> $12845 \times 13 (= 166985)$ <b>or</b> $12468 \times 13 (= 162084)$	This mark can be awarded at any stage in the process
		P1	for process to find the cost, eg $"377" \times 13 (= 4901)$ <b>or</b> $"166985" - "162084" (= 4901)$	
		B1	(indep) for converting from pence to pounds, eg $"4901" \div 100$ <b>or</b> $13 \div 100$ <b>or</b> miles divided by 100 eg $"377" \div 100 (= 3.77)$ or $12845 \div 100 (= 128.45)$ <b>and</b> $12468 \div 100 (= 124.68)$	
		A1	49 or 49.01	

# November 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
7	145.60	P1  P1  A1	for a process to work out the value of the large bars eg $208 \div 4$ (=52 or 5200)  for a process to work out the value of the small bars eg $(208 - \text{“52”}) \times 60$ or $(1 - \frac{1}{4}) \times 208 \times 60$ (=9360 or 93.6(0)) <b>or</b> for 145.6  for 145.60 cao (must be correct money notation)	units may be ignored for the process marks  work could be in pence or £

# June 2022 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
7	7	<p>P1</p> <p>P1</p> <p>A1</p>	<p>for <math>20 - 6 (= 14)</math>  <b>or</b> <math>20 \div 2 (=10)</math> <b>and</b> <math>6 \div 2 (=3)</math></p> <p>for “14” <math>\div 2 (= 7)</math>  <b>or</b> “10” <math>-</math> “3” <math>(= 7)</math></p> <p>cao</p>	<p>May be seen as a build-up method or by a method of repeated subtraction, listing multiples of 2</p>

# November 2024 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
8 (a)	49.9(0)	B1	for 49.9(0)	To award B1ft, the total for tin of paint must not be blank or 0 May be seen embedded in other calculations eg $4.47 + 240 - 365.5(0)$
	30	B1	for 30	
	417.31	B1	for 417.31, ft allow $367.41 + [\text{their } 49.9(0)]$ for this mark	
	(b)	771.45	M1	
M1			for a complete method, eg $892.48 + 4.47 + 240 - 365.5(0)$	
		A1	cao	

## November 2023 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
8	Shown	M1	for a method to find the total cost for footballs, hockey sticks or cricket bats, eg $9.5 \times 5 (= 47.5)$ <b>or</b> $(6 \div 2) \times 30 (= 90)$ <b>or</b> $23 \times 2 (= 46)$ <b>OR</b> begins to work with budget, eg $200 - 5 (= 195)$	Can be done with addition or subtraction, or combination
		M1	for a method to find the total cost for two of footballs, hockey sticks or cricket bats, eg two from $9.5 \times 5 (= 47.5)$ <b>or</b> $(6 \div 2) \times 30 (= 90)$ <b>or</b> $23 \times 2 (= 46)$ <b>OR</b> works with budget <b>and</b> total cost for one of footballs, hockey sticks or cricket bats, eg $200 - "47.5"$	
		M1	for a complete method to find comparable figures, eg $9.5 \times 5 + (6 \div 2) \times 30 + 23 \times 2 + 5$ or $"47.5" + "90" + "46" + 5$ or $200 - (9.5 \times 5 + (6 \div 2) \times 30 + 23 \times 2 + 5)$ or $200 - "188.5"$	
		C1	shows correct figures for a conclusion eg (£)188.5(0) <b>or</b> (£)11.5(0)	

# November 2021 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
8	2540 shown	M1  M1  A1	for finding the cost of one item eg $2 \times 600 (=1200)$ or $7 \times 120 (=840)$ or $2 \times 250 (=500)$  full process eg “1200” + “840” + “500” (=2540) <b>or</b> $2500 - “1200” - “840” - “500” (=±40)$  for 2540 or $±40$	Ignore written statements as long as the correct figures are shown

## June 2020 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
8	78	P1  P1  A1	for process to find the number of boxes, eg $200 \div 25 (=8)$ or to find the cost of each tile, eg $9.75 \div 25 (=0.39)$  for complete process, eg “8” $\times$ 9.75, “0.39” $\times$ 200  cao	Could work in £ or in pence for P marks

## June 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
9	379.86	P1	for process to work with number of miles or cost, eg $47879 - 47241 (= 638)$ <b>or</b> $47879 \times 47 (= 2250313)$ or $47241 \times 47 (= 2220327)$ <b>or</b> [mileage] $\times 47$	working may be seen in £ or pence throughout  [mileage] is any value they consider to be mileage
		P1	for process to work with miles and cost, eg $"638" \times 47 (= 29986)$ or $"638" \times 0.47 (= 299.86)$ <b>or</b> $"2250313" - "2220327" (= 29986)$	
		B1	(indep) for converting between pence and pounds, eg $"29986" \div 100$ <b>or</b> $47 \div 100 (= 0.47)$ <b>or</b> $80 \times 100$ <b>OR</b> miles divided by 100, eg $"638" \div 100 (= 6.38)$ <b>or</b> $47879 \div 100 (= 478.79)$ <b>and</b> $47241 \div 100 (= 472.41)$	
		A1	for 379.86	



# November 2021 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
9	No with correct figures	P1  P1  A1	for $1.20 + 0.70 + 2.30 + 2.30 (= 6.5(0))$ <b>or</b> for adding 3 correct costs <b>or</b> for 2 correct costs plus change <b>or</b> for $10 - 2$ correct costs  for a complete correct method, eg $10 - "6.50"$ <b>or</b> $10 - 1.20 - 0.70 - 2.30 - 2.30 (=3.50)$ <b>or</b> $1.20 + 0.70 + 2.30 + 2.30 + 3.30 (=9.80)$	Could work in £ or p for P marks  Accept $2.30 + 2.30 (= 4.60)$ as 2 costs  Accept absence of "0" in pence column

June 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
10	Yes (supported)	P1  P1  P1  C1	<p>for an initial process, eg <math>6 \times 2 (=12)</math>  <b>or</b> <math>80 \div 2 (=40 = 0.40)</math> oe  <b>or</b> <math>6 \times 0.8 (= 4.80)</math> oe  <b>or</b> <math>6 \div 2 (= 3)</math></p> <p>for a process using the special offer  eg <math>6 \times "40" (= 240 \text{ or } 2.40)</math> oe  <b>or</b> <math>"4.80" \div 2 (= 2.40)</math> oe <b>or</b> <math>2 + "0.40" (= 2.40)</math> oe  <b>or</b> <math>"3" \times 0.8 (= 2.40)</math></p> <p>for a complete process to find figures to compare,  eg <math>6 \times 2 + 6 \times "0.40" (= 14.40)</math> oe  <b>or</b> <math>15 - "12" - "2.40" (= 0.60 \text{ or } 60\text{p})</math></p> <p>for Yes with correct comparable figures,  eg Yes <b>and</b> (£)14.4(0)  <b>or</b> Yes <b>and</b> (£)0.6(0) or 60p change</p>	<p>May work in pounds or pence</p> <p>Allow use of inconsistent units for the first 2 marks</p> <p>Award 0 marks for a correct answer with no supportive working.  Answer of 'No' gets C0 irrespective of working, correct or not.  Ignore incorrect value for change, if (£) 14.4(0) seen</p>

# November 2022 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
10 (a)	5	P1	for correct process, eg $23 \div 4 (= 5.75)$ <b>or</b> adds 4s up to at least 20 <b>or</b> repeatedly subtracts 4 up to a remainder of less than 4	
(b)	No (supported)	A1	cao	
		C1	for No with reason <b>Acceptable examples</b> Can buy 11 jars Can buy an extra jar (for the £3 extra) Can buy 10 jars for £20 He will have £3 left Because he can buy more than twice the number of jars Because $23 \div 2 = 11.5$  <b>Not acceptable examples</b> Yes ..... Can buy 10 / Can buy 12	

## June 2022 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
10	213	P1  P1  A1	for beginning to work with costs eg $1428 - 150 (= 1278)$ <b>or</b> $1428 \div 6 (= 238)$ <b>and</b> $150 \div 6 (= 25)$  for complete process to find monthly payment eg “1278” $\div 6$ or “238” – “25”  cao	

# November 2021 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
10	61	P1 A1 A1	for $300 \div 4.85 (= 61.8\dots)$ for 61.8... <b>or</b> 62 61	This mark may be awarded for build-up methods that get to figures that are before or after 300 Embedded answers get -1 mark.



## November 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
12	15	P1	for process to find number of child tickets, eg $180 \div 100 \times 60 (= 108)$ oe	Where [108] is what they clearly think is 60% of 180 but can't be greater than 180
		P1	for process to find total cost of child tickets, eg “108” $\times 8 (= 864)$ <b>or</b> [108] $\times 8$ <b>OR</b> for process to find number of adult tickets, eg $180 - [108] (= 72)$ or $180 \div 5 \times 2 (= 72)$ oe or $180 \times \frac{100 - 60}{100}$	
		P1	for a complete process, eg $(1944 - “864”) \div “72”$ <b>or</b> $(1944 - [108] \times 8) \div (180 - [108])$	
		A1	cao	

# November 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
13	23	P1	for finding the number of scrunchies possible eg $100 \div 5 (= 20)$ <b>or</b> the cost of 1 g of wool eg $300 \div 100 (= 3)$	Award of this mark implies the previous mark 460 implies P2
		P1	for working out the cost of wool per scrunchie eg $3 \div "20" (= 0.15)$ <b>or</b> $300 \div "20" (= 15)$ <b>or</b> $"3" \times 5 (= 15)$ <b>or</b> the cost of all hair bands eg $"20" \times 8 (= 160)$ <b>or</b> $"20" \times 0.08 (= 1.6(0))$	
		P1	for complete process eg $("0.15" + 0.08) \times 100$ <b>or</b> $"15" + 8$ <b>or</b> $(300 + "160") \div "20"$ <b>or</b> $(3 + "1.6(0)") \div "20" \times 100$	
		A1	accept £0.23	

# November 2024 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
14	324	<p>P1</p> <p>P1</p> <p>P1</p> <p>A1</p>	<p>for a process to work out daily pay on a weekday, eg <math>8 \times 6 (= 48)</math></p> <p><b>or</b> a process to work out the number of hours of pay for weekdays, eg <math>6 \times 5 (= 30)</math></p> <p><b>or</b> the number of hours of pay for Saturday and Sunday, eg <math>(4 + 3) \times 1.5 (= 10.5)</math></p> <p><b>or</b> a process to work out rate of pay for Saturday or Sunday, eg <math>8 \times 1.5 (= 12)</math></p> <p>for a process to work out the total pay from Monday to Friday, eg <math>"48" \times 5 (= 240)</math> <b>or</b> <math>"30" \times 8 (= 240)</math></p> <p><b>or</b> for a process to work out the total pay from Saturday and Sunday, eg <math>"10.5" \times 8 (= 84)</math> <b>or</b> <math>"12" \times (4 + 3) (= 84)</math></p> <p><b>or</b> a process to work out the total number of hours of pay, eg <math>"30" + "10.5" (= 40.5)</math></p> <p>for a complete process, eg <math>"240" + "84"</math> <b>or</b> <math>"40.5" \times 8</math></p> <p>cao</p>	

## June 2023 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
14	1.3	M1	for working with boxes or bags eg $600 \div 120 (= 5)$ or $1000 \div 270 (= 3.7(037..))$ $6 \div 120 (=0.05)$ or $10 \div 270 (= 0.037(037..))$	Cost $\div$ quantity For the M marks allow working in £ instead of p.
		M1	for working with bags and boxes where they are working to the same quantities of boxes and bags eg $600 \div 120 (= 5)$ <b>and</b> $1000 \div 270 (= 3.7(037..))$ $6 \div 120 (=0.05)$ <b>and</b> $10 \div 270 (= 0.037(037..))$	Other values are possible where they are using alternative quantities of boxes and bags, but these must be the same quantities of each.
		M1	for finding the difference eg “5” – “3.7(037..)” (= 1.29.. to 1.3) or “0.05” – “0.037(037..)” (= 0.0129.. to 0.013)	Must have consistent units for this mark.
		A1	for answer in the range 1.29 to 1.3	If an answer is given in the range in working and then rounded incorrectly award full marks.

# November 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
15	450	P1	for working with percentage eg $12000 \times 25 \div 100 (= 3000)$ oe <b>OR</b> for splitting the cost of the car over 20 months eg $12000 \div 20 (= 600)$	[deposit] can be 3000 or any figure that is identified by them as the deposit or 25% of 12000 calculated incorrectly.
		P1	for finding the amount to pay in instalments eg $12000 - [\text{deposit}] (= 9000)$ <b>OR</b> for splitting the cost of the deposit over 20 months eg $[\text{deposit}] \div 20 (= 150)$ <b>OR</b> for finding 25% of the monthly cost eg $"600" \times 25 \div 100 (= 150)$ oe	
		P1	for finding the amount required eg $"9000" \div 20$ <b>or</b> $(12000 - [\text{deposit}]) \div 20$ <b>OR</b> $"600" - "150"$	
		A1	cao	

June 2023 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
18 (a)	45	P1 P1 A1	for a valid start to the process, eg $180 \div 12 (= 15)$ or $3(.00) \div 12 (= 0.25)$ for complete process, eg “15” $\times 3(.00)$ or $180 \times “0.25”$ for 45(.00)	Calculations can be in £ or p or a combination for both process marks
18 (b)	9	P1 P1 A1	for a valid start to the process, eg cost of each can, eg $7(.00) \div 24 (= 0.2916\dots)$ or $700 \div 24 (= 29.16\dots)$ <b>or</b> total volume of 24 cans, eg $330 \times 24 (= 7920)$ <b>or</b> proportion of ml, eg $330 \div 100 (= 3.3)$ for complete process, eg $\frac{100}{330} \times “0.2916\dots” (= 0.08838\dots)$ or $\frac{100}{330} \times “29.16\dots” (= 8.838\dots)$ <b>or</b> $\frac{100}{“7920”} \times 7(.00) (= 0.08838\dots)$ or $7(.00) \div 24 \div \frac{330}{100} (= 0.08838\dots)$ or $7(.00) \div \frac{“7920”}{100} (= 0.08838\dots)$ for 9	Calculations can be in £ or p  Accept £0.09(p)