

Q1 June 2017

8			84	M1 A1	for $(372 - 36) \div 4$ cao
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Q2 June 2017

10		75	P1 P1 A1	for $90 \div 6 (= 15)$ or for connecting AB and BC by ratio or proportion eg 5 and 1 on the diagram for a complete method to find the length AB eg $90 \div 6 \times 5 (= 75)$ cao
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Q3 June 2018

7	24	M1 A1	for a complete method eg $6 \times 2 \times 2$ or sight of 6, 2, 2 ready for calculation, or with the wrong operation cao	Could be seen as two separate calculations SC:B1 for a answer of 1.5 oe
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Q4 June 2018

(b)	2.5604	B2 (B1)	cao for 6.6564 seen, or for 2.56 or for digits 25604	If the correct answer is shown and then rounded, award full marks.
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Q5 June 2018

10	Shows earnings	M1 M1 C1	for a method to start to work out earnings eg $11.2 \times 8 (= 89.6)$ or $20 - 8 (= 12)$ or $8.4 \times 12 (= 100.8)$ for a complete method eg $11.2 \times 8 + 8.4 \times (20 - 8)$ or "89.6" + "100.8" or $200 - "89.6" - "100.8" (= 9.6)$ Shows earnings eg 190.4(0) or 9.6(0) with fully correct arithmetic	Accept calculations in pence, or £ written in decimal form. Conclusion in figures; ignore written conclusion.
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Q6 June 2019

7	6	M1 A1	for interpreting the table to find the number of green counters ($26 + 7 (= 33)$) or the number of red counters ($16 + 11 (= 27)$) or the difference in circles ($26 - 16 (= 10)$) or squares ($11 - 7 (= 4)$) cao	$33 - 27 = 6$ $10 - 4 = 6$
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Q7 June 2019

11	(a)	241.56	P1 P1 A1	for difference for 1 parcel eg $35.38 - 15.25 (= 20.13)$ OR for total cost for 12 parcels by either service eg $35.38 \times 12 (= 424.56)$ or $15.25 \times 12 (= 183)$ for a complete process eg " 20.13 " $\times 12$ or " 424.56 " - " 183 " cao
	(b)	Explanation	C1	for explanation Acceptable examples both figures rounded down (refers to both figures) 20 is less than 21 and 15 is less than 15.25 Not acceptable examples both figures rounded (up); rounded down either 20 is less than 21 or 15 is less than 15.25 (refers to just one figure) the cost is 320.25 (more than 300); multiplying with bigger numbers

Q8 June 2019

21	78	P1	for process to find the number of rand, eg $850 \times 18.53 (= 15750.5)$ OR for process to find number of £, eg $200 \div 18.53 (= 10.79 \dots)$
		P1	(dep P1) for process to find the number of rand notes, eg $"15750.5" \div 200 (= 78.7\dots)$ OR $850 \div "10.79\dots" (= 78.7\dots)$
		A1	cao

Q9 June 2020

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

Q10 June 2020

9	(a)	30	B1	cao
(b)		42	B1	cao

Q11 June 2020

15	(a)	shop A from correct figures	P1	for start of process to find the number of packs needed from at least one shop, eg $30 \div 4 (= 7.5 \text{ or } 8)$ or $30 \div 6 (= 5)$	
			P1	for process to find cost of batteries from at least one shop, eg $(30 \div 4) \times 1.6 (= 12.8 \text{ or } 12)$ or $(30 \div 6) \times 2.7 (= 13.5)$	
			P1	for a complete process to find the cost of batteries from both shops using whole packs eg $"8" \times 1.6 (= 12.8)$ and $"5" \times 2.7 (= 13.5)$	
			C1	for shop A with both 12.8(0) and 13.5(0)	"8" must come from "7.5" rounded up
	(b)	No effect (supported)	C1	(ft) for "has no effect" with reason	If figures are given as part of the answer they must be correct
				Acceptable examples No, since A is 12 and B is 13.5(0) No, since A is just 80(p) less and B is the same. No, since A is less and B has not changed. No, since A is 1.5(0) less No, since 40(p) is less than 45(p) No, as batteries in B are 5p more	
				Not acceptable examples Yes There is no change (unsupported) No, since A is less (incomplete)	

Q12 June 2022

7	29	P1	for a start to a process, eg. (total apples =) $86 + 75 + 92 (= 253)$ or (total oranges =) $68 + 80 + 76 (= 224)$ or differences each week, eg. (week 1) $86 - 68 (= 18)$ or (week 2) $75 - 80 (= -5)$ or (week 3) $92 - 76 (= 16)$
		P1	for complete process, eg $"253" - "224"$ or $"18" + "-5" + "16"$
		A1	cao

Q13 June 2022

11	Yes (supported)	M1	for $48 \times 3 (=144)$ or $35 \times 4 (=140)$ or $48 \div 4 (=12)$
		M1	for $48 \times 3 (=144)$ and $35 \times 4 (=140)$ or " $140 \div 48 (=2.9...)$ " or " $140 \div 3 (=46.6...)$ " or " $12 \times 3 (=36)$ " or " $144 \div 4 (=36)$ " or " $144 \div 35 (=4.1...)$ "
		C1	for Yes with 144 and 140 OR 36 OR 2.9... OR 4 (spare) OR 4.1... (each frame) OR 46.6... (in each box)

Q14 June 2022

15	5	M1	for 40.15 or 8.03 seen in working
		A1	cao

Q15 June 2022

25	Chic Decor (supported)	P1	for process to find cost of 15 rolls from Chic Decor, eg $\frac{15}{3} \times 36 (=180)$ or for process to find cost of 15 rolls from Style Papers at normal price, eg $\frac{15}{5} \times 70 (=210)$ or for process to find cost of 1 roll from Chic Decor, eg $36 \div 3 (=12)$ or for process to find cost of 1 roll from Style Papers, eg $70 \div 5 (=14)$ or for process to find the cost of 5 rolls from Chic Decor, eg $\frac{36}{3} \times 5 (=60)$	Could compare the costs for any number of rolls
		P1	for any first step in using the discount at Style Papers, eg $0.12 \times "210" (=25.2(0))$ or $0.12 \times "14" (=1.68)$ or $0.12 \times 70 (=8.4(0))$ or $1 - 0.12 (=0.88)$	
		P1	for full process to find cost from Style Papers, eg, " $210 - "25.2" (=184.8(0))$ " or " $0.88 \times "210"$ " or for " $14 - "1.68" (=12.32)$ " or " $0.88 \times "14"$ " or for $70 - "8.4(0)" (=61.6(0))$ or " 0.88×70 "	
		C1	for Chic Decor with fully correct figures eg 180 and 184.8(0) or 12 and 12.32 or 60 and 61.6(0)	

Q16 June 2023

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 $600 \div 120 (=5)$ and $1000 \div 270 (=3.7(037...))$ $6 \div 120 (=0.05)$ and $10 \div 270 (=0.037(037...))$	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.

Q17 June 2023

25	65	P1	for a correct process to find the number of seconds, eg $67\,205\,600 \div 11.9 (= 5\,647\,529.4\dots)$ or for a correct process to convert between seconds and days, eg $24 \times 60 \times 60 (= 86\,400)$ oe, may be seen in stages or $11.9 \times 60 \times 60 \times 24 (= 1\,028\,160)$	Note that this mark may be awarded at any stage in the working. If a correct answer within the range is shown in working but incorrectly rounded award full marks.
		P1	for a complete process, eg “ $5\,647\,529.4\dots \div “86\,400”$ or $67\,205\,600 \div “1\,028\,160”$	
		A1	accept answers in the range 65 to 65.4 or 66	

Q18 June 2024

8	No from correct figures	P1	for process to find year of Aisha’s 18th birthday, eg $1993 + 18 (= 2011)$ or for process to find Aisha’s age in 2030, eg $2030 - 1993 (= 37)$	At least 3 correct values needed At least 3 correct values needed, condone years missing eg 18, 23, 28,... without 2011, 2016, 2021...
		P1	for process to find years of future elections, eg writes down 2011, 2016, 2021, 2026, 2031 or for $2011 + 4 \times 5 (= 2031)$ oe or for process to find Aisha’s age in years when there is an election, eg writes down 18 in 2011, 23 in 2016, 28 in 2021, 33 in 2026 and 38 in 2031 or for process to find years between 18th birthday and election eg $2030 - 2011 (= 19)$	
		A1	for No with correct figures eg 2011 and 2026 or 2031 or for No with eg 37 and 33 or 38 or for No with 2011 (2016, 2021, ...) and explanation that election years end in 1 or 6, not 0 or for No with 2011 and explanation that 19 is not divisible by 5	

Q19 June 2024

9	Shown	P1	for a start to process of finding the total cost, eg $5 \times 26 (= 130)$ or $4 \times 45 (= 180)$ or $8 \times 23.50 (= 188)$ or $26 + 45 + 23.50 (= 94.5(0))$ or for a start to process of finding money left after paying costs, eg $500 - 26 (= 474)$ or $500 - 45 (= 455)$ or $500 - 23.50 (= 476.5(0))$ or $500 - 5 \times 26 (= 370)$ or $500 - 4 \times 45 (= 320)$ or $500 - 8 \times 23.50 (= 312)$	
		P1	for complete process, eg “130” + “180” + “188” (= 498) or $500 - “130” - “180” - “188” (= 2)$	
		C1	Shown with a complete process and correct figures.	

Q20 June 2024

11	6	M1	for start to method, eg $45 \times 8 (= 360)$ or (45 mins =) 0.75 oe (hours)
		A1	cao

Q21 Nov 2017

4	(a)	$5.80 \times 3 + 7.80 = 25.20$	90p or £0.90	M1	for a correct first step from which a complete method could be developed, eg. $5.8(0) \times 3 (= 17.4(0))$ or $24.3(0) - 7.8(0) (= 16.5(0))$
				M1	for complete method, eg. $7.8(0) + 5.8(0) \times 3 - 24.3(0) (= 0.9(0))$
				A1	for answer in correct notation with correct units, eg. 90p or £0.90 (accept £0.90p and £0.9)
					[SC: B1 for an answer of £2.90]
	(b)		8.27pm	M1	for using 60 mins = 1 hour in the conversion of 102 minutes, eg. 1 h 42 mins or 1.42 or 1.7 or (60 + 42) mins or $102 - 60$ or $102 \div 60$ or for an answer of 8.27am or 08.27
				A1	for 8.27(pm) oe

Q22 Nov 2017

5			13	M1	for the start of a method, eg. $2 \times 1000 (= 2000)$ or $150 \div 1000 (= 0.15)$ or $1000 \div 150 (= 6.66\dots)$
				M1	for a fully correct method, eg. $2000 \div 150$ or $2 \div 0.150$ or $13.3(\dots)$
				A1	cao

Q23 Nov 2017

11			Offer 1	P1	for a process to find the cost of a number of lessons in Offer 1, eg. $24 \times (12 - 1) (= 264)$ or for a process to find 5% (or 95%) of an appropriate amount, eg. $24 \times 0.05 (= 1.20)$ or $24 \times 0.95 (= 22.80)$ in Offer 2
			(supported)	P1	for a complete process leading to values to be used for comparison, eg. $24 \times (12 - 1) (= 264)$ and $24 \times 0.95 \times 12 (= 273.60)$
				C1	Offer 1 and correct values, eg. (£)264 and (£)273.6(0) used for comparison

Q24 Nov 2018

1	(i)	43.7	B1	cao
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Q25 Nov 2018

8	Yes with correct figures	P1	begins to work with proportion eg $20 \div 2 (=10)$ or $20 \div 5 (=4)$ or $2.38 \div 2 (=1.19)$ or $5.60 \div 5 (=1.12)$	Throughout monetary units not required; trailing zeros not needed. Can work in pence throughout
		P1	full process to find the cost of 20 pens or 20 folders eg. $20 \div 2 \times 2.38 (=23.8)$ or $20 \div 5 \times 5.60 (=22.4)$ or $2.38 \div 2 \times 20 (=23.8)$ or $5.60 \div 5 \times 20 (=22.4)$	
		P1	full process to find total price or amount remaining eg "23.8" + "22.4" (=46.2) or $50 - "23.8" - "22.4" (=3.8)$	
		C1	Yes with correct figures eg 46.2 or 3.8 (left)	

'Yes' might be implied from working eg $46.2 < 50$ or a statement that 3.8 is left, but 46.2 alone must also show an answer such as 'Yes' (may be written elsewhere).
Working leading to 46.2 must be shown for this mark.

Q26 Nov 2018

13		P1	for $45 \times 1.2 (= 54)$ or $34 \times 1.5 (= 51)$
		P1	for $150 - "54" - "51" (= 45)$
		P1	for $"45" \div 0.9 (= 50)$
		A1	cao

Q27 Nov 2019

11	(a)	2.5(0)	P1	for $13 \times 7.5(0)$ (=97.5(0)) or 5×20 (=100)
			P1	for “100” – “97.5(0)”
			A1	cao
	(b)	96	M1	for $\frac{1}{5} \times 120$ (= 24) oe or $\frac{4}{5} \times 120$ oe
			A1	cao

Q28 Nov 2019

12	6	P1	process to find the weight of small boxes eg 3×450 (=1350)	Cannot award this mark if 6 comes from a rounded value due to error in calculating
		P1	complete process to find the number of large boxes, eg $(5850 - “1350”) \div 750$ or $5850 - “1350”$ (=4500) and 6×750 (=4500)	
		A1	cao	

Q29 Nov 2021

8	2540 shown	M1	for finding the cost of one item eg 2×600 (=1200) or 7×120 (=840) or 2×250 (=500)	Ignore written statements as long as the correct figures are shown
		M1	full process eg “1200” + “840” + “500” (=2540) or $2500 - “1200” - “840” - “500”$ (= ±40)	
		A1	for 2540 or ±40	

Q30 Nov 2021

10	61	P1	for $300 \div 4.85$ (= 61.8...)	This mark may be awarded for build-up methods that get to figures that are before or after 300 Embedded answers get -1 mark.
		A1	for 61.8... or 62	
		A1	61	

Q31 Nov 2022

8	(a)	102	B1	cao
	(b)	82	M1	for a method of extracting the correct 4 numbers from the table, adding all 4 numbers and then dividing by 4 eg $(143+121+45+19) \div 4$ or “328” $\div 4$
			A1	cao

Q32 Nov 2022

15	Yes (supported)	P1	for finding the cost of 1 kg of carrots eg $1.74 \div 3 (= 0.58)$	for finding the cost of 1 kg onions eg $2.(00) \div 4 (= 0.5)$	for all P marks can work in pence or in £
		P1	for isolating the cost of 2.5 kg of onions eg $2.36 - (2 \times "0.58") (= 1.2(0))$	for finding the cost of 2.5 kg of onions eg $2.5 \times "0.5" (= 1.25)$	
		P1	for the cost of 1 kg of onions or 0.5 kg of onions, eg $"1.20" \div 2.5 (= 0.48)$ or $"1.20" \div 5 (= 0.24)$ or for $4 \div 2.5 (= 1.6)$	for finding the cost of 2 kg of carrots eg $2.36 - "1.25" (= 1.11)$	
		P1	for the cost of 4 kg of onions, eg $4 \times "0.48"$ or $8 \times "0.24" (= 1.92)$ or for $"1.6" \times "1.2(0)"$	for finding the cost of 3 kg of carrots eg $"1.11" \div 2 \times 3 (= 1.665)$ <i>for comparison with 1.74</i>	
		C1	Yes with correct figures shown eg 192 or 1.92 or "has 8p left" or 166.5		Allow comparison of mixed units eg 192 with £2

Q33 Nov 2022

(b)	13.524	M1	for 33.81 or 2.5 or $\frac{3381}{250}$ or digits 13524
		A1	cao

Q34 Nov 2023

7	144	P1	for process to begin to work with length, eg $8050 \div 25 (= 322)$ or $178 \times 25 (= 4450)$	
		P1	for full process to find number of lengths remaining, eg $"322" - 178$ or $(8050 - "4450") \div 25$ or $3600 \div 25$	3600 implies the first P1 mark
		A1	cao	

Q35 Nov 2023

9	5	P1	for process to work in consistent units, eg $12 \times 1000 (= 12000)$ or $105 \div 1000 (= 0.105)$	May be seen in subsequent calculations
		P1	for process to work with portion size, eg $105 \times 3 (= 315)$ OR $12 \div [0.105] (= 114.285...)$	For [0.105] allow use of 0.105, 1.05 or 10.5
		P1	for process to work with weight of food per week or number of days, eg $"315" \times 7 (= 2205)$ or $"315" \times 5 (= 1575)$ or $"315" \times 6 (= 1890)$ [12000] $\div "315" (= 38(.095...))$ OR $[114.285...] \div 3 (= 38(.095...))$ or $[114.285...] \div 7 (= 16.3...)$	For [12000] accept use of 12000, 1200 or 120 For [114.285] allow continued use of incorrectly converted figure from previous mark.
		P1	(dep P2) for process to find number of weeks, eg $"12000" \div "2205" (= 5.4...)$ OR $"38.095..." \div 7 (= 5.4...)$ OR $"16.3..." \div 3 (= 5.4...)$ OR $"2205" \times 5 (= 11025)$ or $"2205" \times 6 (= 13230)$ OR 975 or -1230	
		A1	cao	If a correct answer is given without supportive working award 0 marks.

Q36 Nov 2024

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	for a correct first step, eg $892.48 + 4.47 (= 896.95)$ or $892.48 + 240 (= 1132.48)$ or $892.48 - 365.5(0) (= 526.98)$ or $4.47 + 240 (= 244.47)$	
			M1	for a complete method, eg $892.48 + 4.47 + 240 - 365.5(0)$	
			A1	cao	

Q37 Nov 2024

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