

Section	Question	Answer / calculations
Day 1 Arithmetic	1	816
	2	846
	3	80
	4	690
	5	158
	6	78,400
Day 1 Reasoning	1	109 or 118
	2	$180 \div 12 = 15$ trays
	3	10% of 30 = 3 (3 squares shaded in)
	4	$3 \frac{3}{4}$ and $1 \frac{1}{4}$ or $1 \frac{1}{2}$ and $3 \frac{1}{2}$
	5	(Needs diagram) -1.5 In between -1 and - 2 on the mid height line. 0.45 in between the 4th and 5th line to the right of zero
Day 2 Arithmetic	1	7.7
	2	219
	3	15.9
	4	$\frac{4}{6}$
	5	408
	6	334,796
Day 2 Reasoning	1	a) $6 < 14$ b) $27 > 17$ c) $20 = 20$
	2	a) 3h 50 mins so she pays £1.70 b) Mark stayed for 2 hours and Dan stayed for 2 hours and 10 minutes
	3	$18 \times 5 = 90$ cm
	4	0.098, 0.607, 0.78, 4.003, 5.6
	5	20,900, 2,100, 200
Day 3 Arithmetic	1	1380
	2	7
	3	16,595
	4	1654
	5	$29 \frac{1}{4}$
	6	195
Day 3 Reasoning	1	( 4 , 3 )
	2	Triangle: $96 \div 3 = 32$ Circle: $(100-64) \div 2 = 18$
	3	a) 27 or 72 b) 25 c) 12
	4	10.8 , 17.3
Day 4 Arithmetic	1	658
	2	7.708
	3	4.94
	4	576
	5	$2 \frac{11}{30}$

	6	120
Day 4 Reasoning	1	a) $60 \times 60 = 3600$ seconds b) $60 \times 24 = 1,440$ minutes
	2	$(4.5 \times 3 - 6) \times 2 = 15$ (working backwards)
	3	24 and 48
	4	(Needs diagram)
	5	a) 1200 b) 0.25 c) 30
Day 5 Arithmetic	1	360
	2	1
	3	34.21
	4	180
	5	289,489
	6	2/9
Day 5 Reasoning	1	20
	2	$342 \times 6 = 2052$
	3	a) $29 + 17 = 46$ mins b) 10:44
	4	a) blank b) 17 c) 20 d) 9
	5	$\pounds 2.00 - 80\text{p} = \pounds 1.20$ so $\pounds 1.20 \div 3 = 40\text{p}$
Day 6 Arithmetic	1	270
	2	81,000
	3	$6/6 = 1$
	4	208,185
	5	276
	6	1/30
Day 6 Reasoning	1	a) 9 degrees b) -6 degrees
	2	(Needs diagram)
	3	$1500 \div 50 = 30$ days
	4	$6 \times 45 \times 11 = 2970$ marbles
Day 7 Arithmetic	1	22
	2	49,200
	3	334,796
	4	13
	5	154
	6	32,336
Day 7 Reasoning	1	Top left and bottom left
	2	Because: odd + odd = even , then: even + odd = odd (and 50 is even)
	3	half way between 20 and 30 so also half way between 68 and 86 = 77
	4	(5,2)
Day 8 Arithmetic	1	500
	2	3,896

	3	238
	4	$12/15 + 5/15 = 17/15 = 1 \frac{2}{15}$
	5	6/14 or 3/7
	6	$2 + 3/6 + 2/6 = 2 \frac{5}{6}$
Day 8 Reasoning	1	Fifty three thousand, one hundred and forty eight
	2	$300 - 110 = 190$ then $6 \times 30 = 180$ so 290 is the closest
	3	115
	4	15 (probably by trial and error)
	5	$500 - 140 = 360\text{ml}$
Day 9 Arithmetic	1	856
	2	8.32
	3	120
	4	1800
	5	181
	6	$9/12 + 3/12 = 12/12 = 1$
Day 9 Reasoning	1	$180 - 90 - 38 = 52$ (left-hand triangle) then $180 - 52 - 52 = 76$ (grey triangle)
	2	Top row: a) 4 or 16 or 36 or 64 b) 1 or 9 or 25 or 49 or 81. Bottom row: c) any even number except the ones mentioned in "a". d) any odd number except the ones mention in "b".
	3	$48 \div 3 = 16$ then $16 \times 4 = 64$
	4	a) 191,118 b) 48,361
Day 10 Arithmetic	1	292
	2	2,460
	3	10.15
	4	2/6 or 1/3
	5	194,850
	6	0.0201
Day 10 Reasoning	1	9:20pm
	2	$7 \times 5 = 35$ squares in total. So: 13/35
	3	$50 \div 2.5 = 20$
	4	$3.99+5.99+6.99 = 16.97$ then $16.97 - 14.50 = \text{£}2.47$
	5	5,10,20,2 or 5,10,20,4