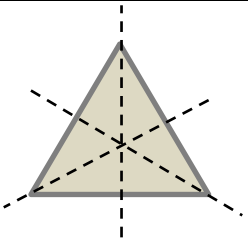


Highfield Functional Skills Qualification in Mathematics at Level 1 - MOCK

PAPERCODE: FSQC109P_MS

Question	Total marks	Content Ref	Process	Marker annotation	Accepted answer AFT = allow follow through CAO = correct answer only OE = or equivalent
Underpinning Knowledge					
1 (Q10 On-screen)	1	5	Correct substitution into formulae	1CA	CAO 3.4
2 (Q11 On-screen)	1	3	Correct division	1CA	CAO (0).022
3 (Q12 On-screen)	2			2CA	CAO 125 (km)
		If answer incorrect revert to:			
		21	Interpretation of scale	1a	CAO 25 x 5
		21	Correct distance	1b	CAO 125 (km)
4 (Q13 On-screen)	1	24	All 3 lines drawn	1CA	CAO  <i>(allow reasonable tolerance with the accuracy of lines)</i>
5 (Q14 On-screen)	2			2CA	CAO 225
		If answer incorrect revert to:			
		9	Method to calculate three quarters	1a	300 x 0.75 OE
		9	Three quarters calculated	1b	CAO 225

6 (Q15 On-screen)	1	11	Correct multiplication	1CA	CAO 1.8018
7 (Q16 On-screen)	2			2CA	CAO (£)175
		If answer incorrect revert to:			
		17	One share calculated	1a	CAO (£)35
		17	Billy's share calculated	1b	CAO (£)175
8 (Q17 On-screen)	1	17	Suitable method shown to check previous question	1CA	Alternative method, reverse calculation or estimation used E.g. $210 - 175 = 35$ or $35 \times 6 = 210$
Problem Solving					
9 (Q18 On-screen)	5			5CA	CAO 110 (panels)
		If answer incorrect revert to:			
		20a	Converting lengths to metres	1a	CAO 3 m or 6 m or 4500cm or 150cm OE (<i>can be implicit</i>)
		22b	Identifying 3 missing perimeter lengths	1b	CAO 39(m) and 39(m) and 36(m) (<i>second 39m can be implicit</i>)
		22b	Method to calculate perimeter or panels per length	1c	AFT $45 + 39 + 39 + 36 + 6 = 165(\text{m})$ or $(45 \div 1.5), (39 \div 1.5), (39 \div 1.5), (36 \div 1.5), (6 \div 1.5)$ (<i>must see at least 3</i>) OE
		22b	Method to find number of fence panels for perimeter	1d	AFT $(165) \div 1.5$ or $30 + 26 + 26 + 24 + 4$ (<i>must see at least 3</i>) OE
		22b	Correct answer	1e	CAO 110 (panels)

10 (Q19 On-screen)	3			3CA	CAO 435 and Simon
		If answer incorrect revert to:			
		29	Method to find total of weights	1a	method Addition of all weights (=6525)
		29	Correct method to find mean	1b	AFT – method (6525) ÷ 15 (=435)
		29	Correct name	1c	Simon
11 (Q20 On-screen)	3			3CA	CAO 3/16
		If answer incorrect revert to:			
		31	Identification of multiples	1a	CAO 5, 10, 15, 20, 25, 30 OR '6' seen (<i>can be implicit</i>)
		31	Using values in fraction	1b	AFT – method to find fraction (6)/32
		31	Correct fraction	1c	CAO – simplification 3/16

12 (Q21 On-screen)	6		6CA	CAO Year 6 = 5175 and chart with correct title, labels and all values plotted	
		If answer incorrect revert to:			
		14	Method to find 15% of 4500	1a	CAO – method EG $4500 \times 0.15 (= 675)$ or $4500 \div 100 \times 15 (= 675)$
		14	Correct value for year 6	1b	AFT ($4500 + 675 = 5175$)
		27	Chooses/uses a suitable graph	1c	AFT E.g. <div><p>Chart to show Attendance</p><p>Chart to show attendance</p></div>
		27	Use suitable scale on x and y axis	1d	CAO EG 1 – 6 and 0 – 5500 or a broken line – 5500 with equal intervals
		27	Use suitable graph title and labels on x and y axes	1e	CAO E.g. Chart to show attendance, Year and attendance
		27	All values plotted correctly	1f	CAO 6 values plotted correctly (allow f/t of their year 6) - allow $\pm 1\text{mm}$

13 (Q22 On-screen)	6			6CA	CAO No and £6746.11 or No and £746.11 over budget			
		If answer incorrect revert to:						
		11	Method to find cost of gardeners	1a	159.99 × 2 × 12 (=3839.76) OE			
		11	Method to find cost of labourer	1b	8.25 × 8(hours) × 12 (=792)			
		11	Both totals correct	1c	CAO (£)3839.76 and (£)792			
		11	Total of costs of gardeners, labourer and materials	1d	AFT (3839.76 + 792) + 990 (=5621.76)			
		14	Method to find 20%	1e	AFT (5621.76) × 1.2 OE (=6746.11)			
		2	Correct decision with accurate figures	1f	CAO No and (£)6746.11 or (£)746.11			
14 (Q23 On-screen)	6			6CA	CAO 4 (boxes)			
		If answer incorrect revert to:					Alternative method:	
		25	Calculate missing length(s)	1a	CAO 3(m) or 4(m)			
		22	Method to calculate area of one rectangle	1b	EG 12 × 9 or 6 × 12 or “3” × 8 or “3” × “4”			
		22	Method to calculate area of the garden	1c	EG (12 × 9) – (3 × 4) (=96) or (6 × 12) + (8 × 3) (=96) or (6x4) + (8x9) = 96(m²)			
		17	Method to calculate weight of seed required	1d	AFT (96) × 35(g) (=3360)		AFT 1000 ÷ 35 = 28.57	
		20	Converting units	1e	CAO (3360) ÷ 1000 (=3.36(kg))		CAO (96) ÷ 28.75 = 3.36(kg)	
		12	Rounding up to nearest whole kg	1f	AFT (4)			

15 (Q24 On-screen)	5			5CA	CAO (£)693
		20	Converting units	1a	CAO 10cm = 0.1 m (<i>'10cm' can be implicit if seen in 1b</i>)
		23	Method to calculate volume	1b	13 x 5 x 0.1 (= 6.5)
		12	Rounding up to nearest whole m ³	1c	AFT (7)
		17	Method to calculate cost	1d	AFT – method (7) x 99
		2	Total cost	1e	CAO (£)693