N4 NUMERACY 1.1

This resource is to support pupils in passing the appropriate National 4 Assessment Standard. The questions and marking schemes used are from SQA past papers and as such test the topics in their entirety from grade A to C and *may* include other areas from the course. In addition the questions from **Paper 1** (P1) should be completed **without** the use of a calculator and questions from **Paper 2** (P2) permit the use of a calculator.

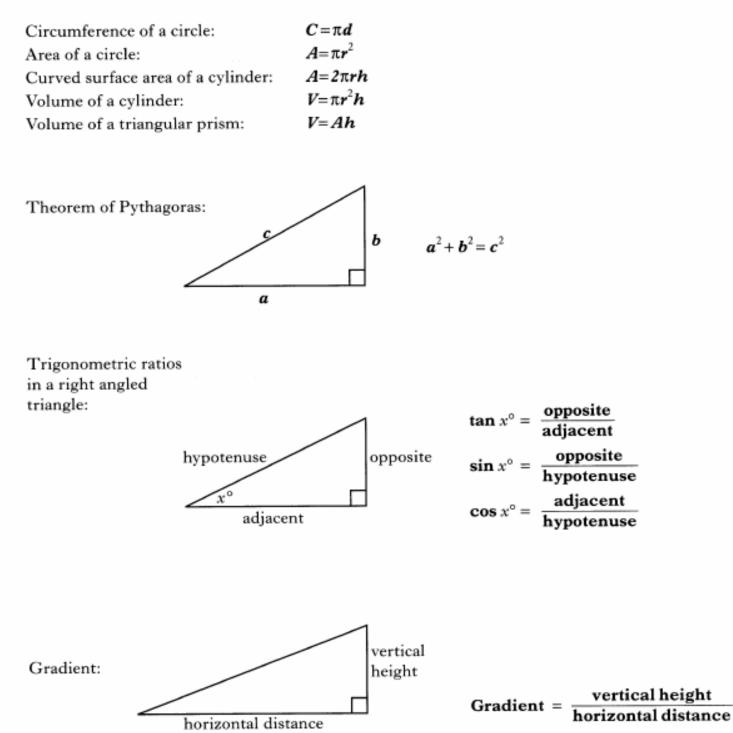
Each Assessment Standard is used to ensure pupils have the minimum competency on the specified sub-skills for the National 4 course. As such each Assessment Standard will test grade C work on that specific topic.

This resource is divided into two sections:

- Section A has an example on each sub skill for the relevant Assessment Standard and the marking scheme for these questions
- Section B has extra practice questions on this Assessment Standard and the marking scheme for these questions

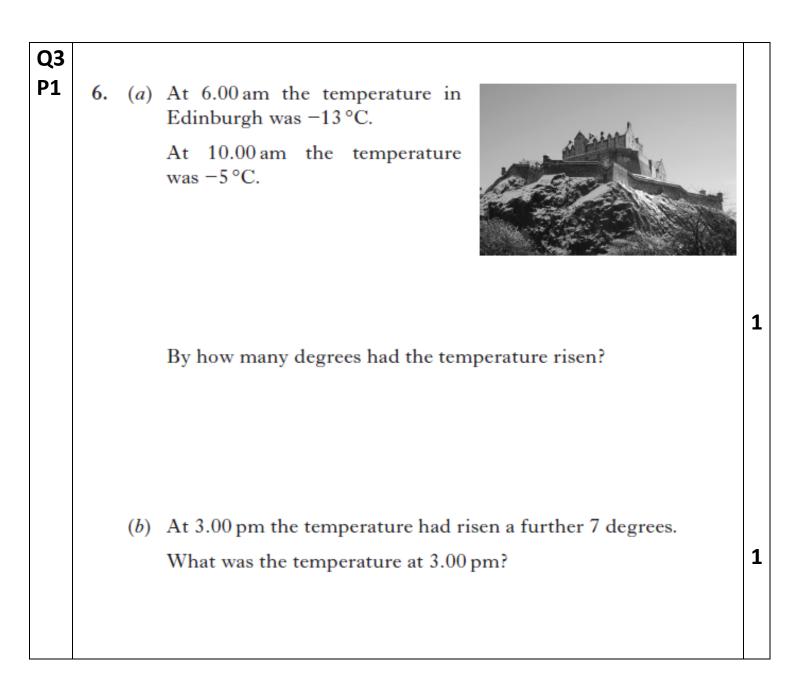
Unit Assessment Standard	<u>Sub skills</u>	Section A – Question Number
Numeracy	Use appropriate <u>units</u> for:	
1.1 Selecting and	money	Q1
Selecting and using appropriate	time	Q2
numerical	measurement	Q3
notation and units	on at least one occasion	
	for each.	

FORMULAE LIST



Section A

Q					Marks
Q1 P1	7.	Rowan wants to buy 13 theatre The price of one ticket is \pounds 12.5 The theatre has a special online four tickets for the price of three Rowan makes use of the spec- offer. How much does Rowan pay for theatre tickets?	0. e offer of ee. ial online	Online Ticket Offer 4 for the price of 3 When the price of 3	3
Q2 P1	5.	A new tram system is Inverness. The trams run between the shown. All trams have the same journe Part of the timetable is shown	four station ey times.		3
		Station	Tram 1	Tram 2	
		Crown	0956	1002	
		Union	1011		
		Telford	1018		
		Ferry		1044	
		Complete this timetable.		3	



Section A

MARKING SCHEME

Section A - Marking Scheme

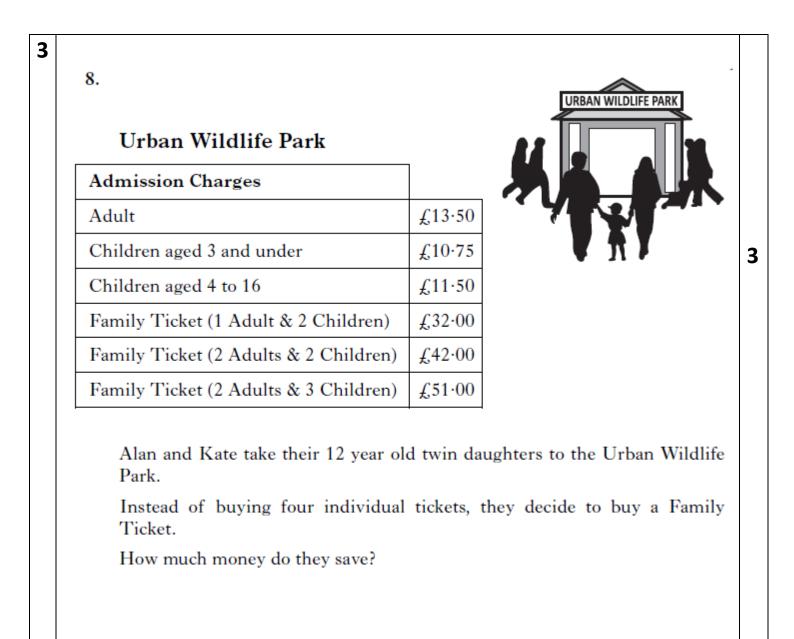
t Marks	TS in these questions that	DTE – it is the use of UNIT	PLEASE N	Q
		e Assessment Standard	will gain	
	ic – money, time and	ne occasion for each topi	(at least	
	-		measure	
		1		Q1
ţ	Illustrations of evidence for awarding each mark	Give 1 mark for each •	Question No	
		ns: (£)125	7	
	\bullet^1 3 × 3 + 1	strategy for groups of four		
	\bullet^2 3 × 37.50	knowing to find the cost of groups of four		
3P 3	• ³ $112.50 + 12.50 = (\pounds)125$	total cost and all calculations correct		
3R	3R			
5	$3 \times 3 + 1$ 10×12.50 $(\pounds)125.00$ 13×12.50 (3×12.50) $(\pounds)125.00$ dates who perform at least two calculations award 2/3	all calculations correct • ³ find cost of 13 tickets • ¹ strategy • ² all calculations correct • ³	(ii)	
3	 1017 1024 1038 	s: 1017, 1024, 1038 3 correct time at Union correct time at Telford correct time at Ferry (RE)	5	Q2
	•3 1038	-		

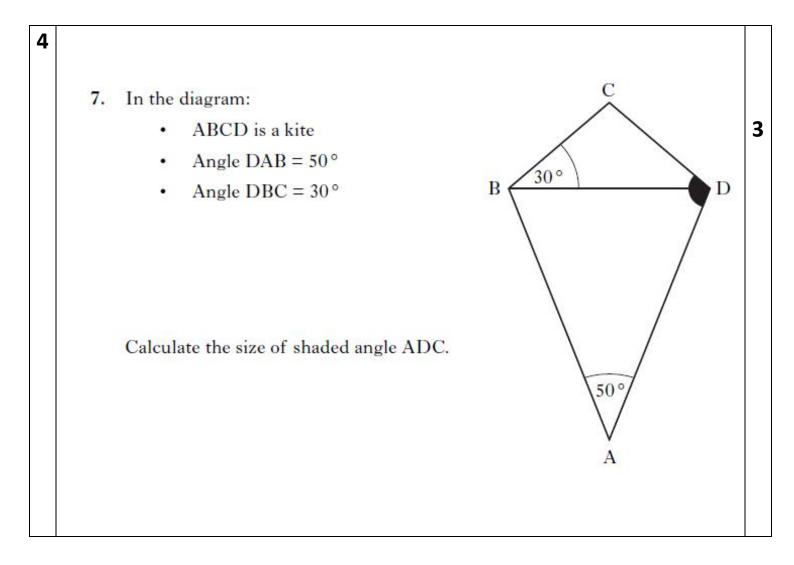
23	 							
	6	a	Ans:	8 (°C)	1			_
			• ¹	correct solution	(KU)	•1	8	1
	6	ь	Ans	2 (°C)	1			
	ľ	ľ	• ¹	correct solution		• ¹	-5 + 7 = 2	1
					(KU)			

Section B

Section B – Paper 1 – Questions

Q			Marks
1	9.	Jamie took the overnight sleeper train from Edinburgh to London. She arrived in London at 0624. Her journey had taken 6 hours 58 minutes. When did Jamie's sleeper train leave Edinburgh?	2
2	7.	Colin works in a supermarket at the weekend. He is paid the basic rate of £7.50 per hour on Saturdays. He is paid at time and a half on Sundays. Last weekend he worked 7 hours on Saturday and 6 hours on Sunday. Calculate Colin's total pay for last weekend.	3





Section B – Paper 2 – Questions

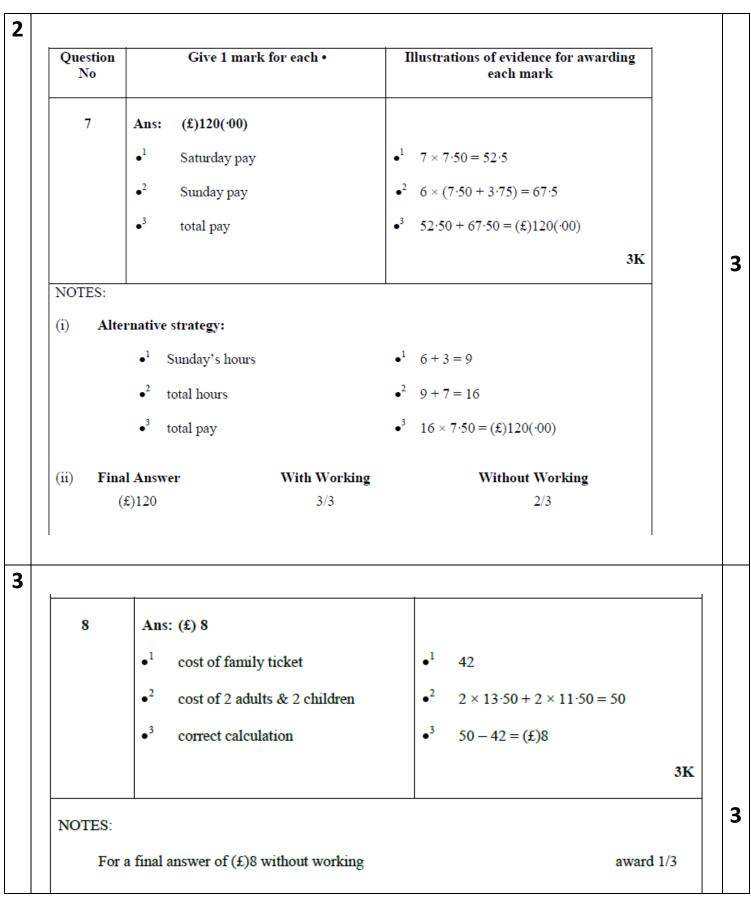
Q		Marks
5	 In the Annual Fun Run, Lucy ran 12 kilometres in 1 hour 15 minutes. Calculate her average speed in kilometres per hour. 	3
6	8. The cash price of a 3D TV at Curlys Superstore is £1315.	3
	Curlys also has an interest free payment plan.	
	The payment plan is a deposit plus twelve equal monthly payments.	
	The deposit for the TV is £175.	



MARKING SCHEME

Section B – Paper 1 – Marking Scheme

	stion No	Give 1 mark	t for each •	Illustrations of evidence for awarding each mark
9		Ans: 2326 • ¹ correct strate • ² correct time of midnight)	gy calculation (over	 ¹ 0624 – 6hrs 58mins ² 2326
NOT	E:			2K
(i)	Final	Answers	With Working	Without Working
	2326		2/2	2/2
	1126	pm	2/2	2/2
	2326	pm	2/2	2/2
	1126((am)	1/2	1/2
	2322	(0624 – 7h 2min)	1/2	0/2
	1322	(0624 + 6h 58min)	1/2	0/2



Question No	Give 1 mark for each •	п	llustrations of evidence for awarding each mark
7	Ans: 95(°) • ¹ use properties of isosceles triangle	•1	30°
	 to find ∠BDC •² use properties of isosceles triangle to find ∠ADB 	•2	$(180^\circ - 50^\circ) \div 2 = 65^\circ$
	• ³ correct addition of angles	•3	65° + 30° = 95(°)
			31
NOTES:			
(i)	Alternative strategy:		
• ¹	use $\angle BCA = \angle DCA$ to find $\angle DCA$	• ¹	$\angle DCA = \frac{1}{2} \times 120^{\circ} = 60^{\circ}$
• ²	use $\angle CAB = \angle CAD$ to find $\angle CAD$	• ²	$\angle CAD = \frac{1}{2} \times 50^{\circ} = 25^{\circ}$
• ³	correct calculation to find \angle CDA	•3	$\angle CDA = 180^{\circ} - (60^{\circ} + 25^{\circ}) = 95(^{\circ})$
(11)	For a correct final answer without working		award 2/3

Section B – Paper 2 – Marking Scheme

Question No	Give 1 m	ark for each •	for each • Illustrations of evidence for awarding each mark		
1	Ans: 9.6 (km/h)				
	•1 convert tir	ne to hours	• ¹ 1 hr 15 mins = 1.25 hrs		
	• ² correct use	e of formula	• ² 12/1·25		
		culation, must involve	• ³ 9.6 (km/h)		
	a division			3K	
NOTE:					
i) Fi	nal Answers	With Working	Without Working	g	
9	·6	3/3	2/3		
10	·4 (12÷1.15)	2/3	0/3		
0	·16 (12÷75)	2/3	0/3		
0	·104 (1.25 ÷ 12)	2/3	0/3		
6	·25 (75 ÷ 12)	1/3	0/3		
0	·104 (12÷115)	1/3	0/3		
8	Ans: (£)95				
0		action of deposit	1^{1} 1315 - 175 = 1140		
		1			
			\bullet^2 1140 ÷ 12		
	• ³ correct calcul	lations, minimum 2	• ³ (£)95	3R	
NOTE:					
(i) Fi	nal Answers	With Working	Without Working		
95		3/3	2/3		
12	4·17 or 124·16 ((1315 +	175) ÷ 12) 2/3	0/3		
	9·58 or 109·59 (1315 ÷ 1		0/3		