1.	Daily High	Temperature expected to drop	Daily Low	
	14°C	13°C	1°C	
	12°C	14°C	-2°C	
	15°C	14°C	1°C	
	11°C	15°C	-4°C	
	10°C	12°C	-2°C	
	11°C	13°C	-2°C	
	9°C	10°C	-1°C	

<u>Reasoning and Problem Solving – Place value answers</u>

The professor will need 5 pairs of socks.

Item	Currently have	Round up
Buckets	58	60
Spades	37	40
Shovels	49	50
Brushes	26	30
Picks	65	70

3. Perimeter: 350m. 14 coils.

4. xx	+	xx	=	XL
VIII	+	VI	=	ΧΙΥ
XXI	-	XVII	=	IV
XLI	+	IX	=	L
xxv	-	xx	=	V
XXIII	-	XIX	=	IV
LXXX	+	xx	=	С
xx	-	xv	=	V

The cipher clue is **GREATEST**.

5. In any order: 4,749, 4,794, 4,758, 4,785, 4,767, 4,776 6. 4,749, 4,758, 4,767, 4,776, 4,785, 4,794. Code is 4,794

7.	Contents	Number of items	Actual weight	Rounded to nearest 100g
	Bag 1 – sapphires	5	464g	500g
	Bag 2 – rubies	9	1615g	1600g
	Bag 3 – emeralds	7	734g	700g
	Bag 4 – pearls	14	1399g	1400g
	Bag 5 – diamonds	8	781g	800g
	Bag 6 – gold coins	12	1989g	2000g

8. It is not correct. There are 5 sapphires, 7 emeralds, and 6 diamonds: 18 jewels in total. 18 lots of $\pounds1,000 = \pounds18,000$.