1. £17 + £9 + £13 + £26 + £6 + £37 + £48 + £11 = £167. £167 x 13 = £2,171. Calculation may stimulate discussion whether to add then multiply (most efficient) or multiply then add (less efficient, more chance for errors).

2. 19 + 65 + 11 = 95 days; 95 ÷ 5 = 19; 95 + 19 = 114; 114 x 13 = 1,482 days.

Food	£23 x 1,482	34, 086
First aid	£7 x 1,482	10,374
Fuel	£17 x 1,482	25,194
Insurance	£51 x 1,482	75,582
Wages	£98 x 1,482	145,236
Total	£196 x 1,482	290, 472

3.

Equipment		Hire (cost per day)	Number of days	Hire Cost	£5 per day Insurance	Total cost
Thermometer	✓	£1,234	65	£80, 210	£325	£80,535
Soil collection pods	✓	£2,543	23	£58, 489	£115	£58,604
Chemical analysis	✓	£7,325	30	£219, 750	£150	£219,900
Richter graph	✓	£5,731	35	£200,585	£175	£200,760

4. Camp exclusion zone: 105 x 15 = 1,575, costing £7 x 1,575 = £11,025
Volcano exclusion zone: 97 x 94 = 9,118, costing £7 x 9,118 = £63,826
Laboratory exclusion zone: 12 x 23 = 276, costing £7 x 276 = £1,932

5.

Helicopter	Cost per trip	Per passenger	Tick to select option
4 seater	£1,224	9 people (13 minus 2 on rest day and 2 at the lab) would need 3 helicopters: 3 x £1,224 = £3,672. £3,672 ÷ 9 = £408 per person	
8 seater	£2,943	9 people (13 minus 2 on rest day and 2 at the lab) would need 2 helicopters: 2 x £2,943 = £5,886. £5,886 ÷ 9 = £654 per person	
10 seater	£3,510	9 people (13 minus 2 on rest day and 2 at the lab) would need 1 helicopters: 1 x £3,510 = £3,510. £3,510 ÷ 9 = £390 per person	✓

Jeep	Cost per trip (outward and return journey)	Total Daily Cost	Price per Person	Tick to select option
4 seater	£242	11 people plus 3 seats for kit would need 4 jeeps: 4 x £242 = £968.	£986 ÷ 11 = £88	
8 seater	£473	11 people plus 3 seats for kit would need 2 jeeps: 2 x £473 = 946	£946 ÷ 11 = £86	✓

6. £346 x 13 = £4,498 so more cost effective to use in house training.