	Scales E3 Mark Scheme	
1(a)	3 cm	[1]
1(b)	1 cm	[1]
1(c)	2 cm	[1]
1(d)	2 cm	[1]
1(e)	1 cm	[1]
2(a)	2.5 cm	[1]
2(b)	0.9 cm	[1]
2(c)	3.6 cm	[1]
2(d)	1.4 cm	[1]
2(e)	6.2 cm	[1]
3(a)	4 cm	[1]
3(b)	2 cm	[1]
3(c)	1 cm	[1]
4(a)	10 cm	[1]
4(b)	$10 \div 10 = 1$ cm	[1]
5(a)	20°C	[1]
5(b)	70°C	[1]
5(c)	40°C	[1]
6(a)	60°F	[1]
6(b)	90°F	[1]
6(c)	150°F	[1]
7(a)	44°C	[1] Accept 43 − 45
7(b)	67°C	[1] Accept 66 − 68
7(c)	7°C	[1] Accept 6 − 8

8(a)	44°F	[1] Accept 43 − 45
8(b)	55°F	[1] Accept 54 − 56
8(c)	114°F	[1] Accept 113 − 115
9(a)	67°C	[1] Accept 66 − 68
	153°F	[1] Accept 152 − 154
9(b)	40°C	[1] Accept 39 − 41
	104°F	[1] Accept 103 − 150
9(c)	50°C	[1] Accept 49 − 51
	122°F	[1] Accept 121 − 123
10(a)	7°C	[1] Accept 6 − 8
10(b)	14°C	[1] Accept 13 − 15
	14 – 7 = 7°C warmer	[1] Accept ft with their readings
11(a)	40°C	[1]
	105°F	[1] Allow answer in range 104 − 106
11(b)(i)	105 – 18 = 87°F	[1]] Allow answer in range 86 − 88
11(b)(ii)	30°C **or** 31°C (from scale on thermometer)	[1] Allow 28°C or 29°C
11(b)(iii)	40 – 30 = 10°C **or** 40 – 31 = 9°C	[1] Allow 12°C or 11°C
12(a)	600 ml	[1]
12(b)	100 ml	[1]
12(c)	1000 ml	[1]
13(a)	75 ml	[1]
13(b)	825 ml	[1]
13(c)	550 ml	[1]

14(a)	600 ml in left	[1]
	300 ml in right	[1]
14(b)	600 ÷ 2 (= 300)	[1]
	300 + 300 (= 600)	[1]
	300 ml in left, 600 ml in right	[1]
14(c)	600 ÷ 3 (= 200)	[1] Allow ecf from (b)
	300 + 200 (= 500)	[1] Allow ecf from (b)
	500 ml in left, 400 ml in right	[1] Allow ecf from (b)
15(a)	900 g	[1]
15(b)	300 g	[1]
15(c)	600 g	[1]
16(a)	700 g	[1]
16(b)	1000 g	[1]
16(c)	100 g	[1]
17(a)	6 oz	[1]
17(b)	22 oz	[1]
17(c)	14 oz	[1]
17(d)	(a) and (c) are lighter, (b) is heavier	[1]
18(a)	Left weighs 50 g	[1]
	Right weighs 150 g	[1]
	150 – 50 = 100 g	[1]
18(b)	Left	[1]
	Because it is lighter	[1]
18(c)	150 – 125 = 25 g	[1]

19(a)	300 ml	[1]
	600 g	[1]
19(b)	600 ÷ 300 (= 2)	[1]
	2 g	[1]
19(c)	300 + 300 = 600 ml	[1]
	600 ÷ 2 (= 300)	[1]
	600 + 300 = 900 g	[1]