| | | | | | | |
|---|---|---|---|---|---|---|
| **1** | (a) | e.g. (8.3 – 3.2) ÷ 3 | | 2 | M1 | for a complete method |
| | | | 1.7 | | A1 | |
| | (b) | 9.45 ÷ 7 | | 2 | M1 | |
| | | | 1.35 | | A1 | |
| | | | | | | **Total 4 marks** |

| | | | | | |
|---|---|---|---|---|---|
| **2** | 200 (m*l*) written as 0.2 (*l* )or 3.5 (*l* ) written as 3500 (m*l*) | | 4 | B1 | for a correct conversion |
| | 3 × "0.2" (= 0.6) oe eg 0.2 + 0.2 + 0.2<br>or<br>3 × 200 (= 600) oe eg –200–200–200<br>or<br>3500 – 600 (= 2900) | | | M1 | A correct calculation for the total amount of water in the 3 cups or the 4 jugs |
| | $\frac{3.5-"0.6"}{4}$ or $\frac{"3500"-"600"}{4}$ oe | | | M1 | For a fully correct method or for an answer of 0.725 (this alone gains B1M2) |
| | | 725 | | A1 | (SCB1M1 (no other marks) for (3.5 – 0.2) ÷ 4 (= 0.825) or (3500 – 200) ÷ 4 (= 825)) |
| | | | | | **Total 4 marks** |

| | | | | | |
|---|---|---|---|---|---|
| **3** | 7 × 2.7 (=18.9) or 4 × 3.3 (= 13.2) or<br>$\frac{3W+4\times3.3}{7}=2.7$ oe eg $3W + 13.2 = 18.9$ | | 3 | M1 | For one correct product or for a correct equation for *W* |
| | $\frac{7\times2.7-4\times3.3}{3}$ or $\frac{18.9-13.2}{3}$ or $\frac{5.7}{3}$ or $3W = 5.7$ | | | M1 | |
| | If you see 1.9 from correct working and they do further work to this value, award M2 | 1.9 | | A1 | |
| | | | | | **Total 3 marks** |

| | | | | | |
|---|---|---|---|---|---|
| **4** | *C* – 5 oe **or** 2*C* oe **or** *T* = a linear expression in *C* | | 3 | M1 | for one of *C* – 5 oe **or** 2*C* oe **or** *T* = linear expression in *C* |
| | *C* + *C* – 5 + 2*C* (= 4*C* – 5) oe<br>**or**<br>for *T* = an expression in *C* with the expression in *C* coming from adding at least 2 of *C*, 2*C*, *C* – 5 eg *T* = 2*C* + *C* – 5 or *T* = *C* + $C^2$ + *C* – 5 | | | M1 | |
| | | *T* = 4*C* – 5 | | A1 | oe but must be simplified eg allow *T* = 4 × *C* – 5 |
| | | | | | **Total 3 marks** |

| | | | | | | |
|---|---|---|---|---|---|---|
| **5** | (c) | | *T* = 8*h* + 20*j* | 3 | B3 | for *T* = 8*h* + 20*j* oe<br>eg *T* = 4(2*h* + 5*j*) oe<br>[accept *T* = 8 × *h* + 20 × *j*]<br><br>(B2 for 8*h* + 20*j* or *T* = 8*h* + *aj* or *T* = *bh* + 20*j* or *T* = 20*h* + 8*j* or a correct equation with letters such as *S* and *L* eg *T* = 8*S* + 20*L*)<br><br>(B1 for 8*h* + *aj* or *bh* + 20*j* or 20*h* + 8*j* or for *T* = an incorrect expression in *h* and *j*) |