

| <b>Capacity E3 Mark Scheme</b> |          |     |
|--------------------------------|----------|-----|
| <b>1(a)</b>                    | 3 L      | [1] |
| <b>1(b)</b>                    | 5 L      | [1] |
| <b>1(c)</b>                    | 4.2 L    | [1] |
| <b>1(d)</b>                    | 2.6 L    | [1] |
| <b>1(e)</b>                    | 0.9 L    | [1] |
| <b>1(f)</b>                    | 0.16 L   | [1] |
| <b>1(g)</b>                    | 8.844 L  | [1] |
| <b>1(h)</b>                    | 20.126 L | [1] |
| <b>1(i)</b>                    | 0.015 L  | [1] |
| <b>1(j)</b>                    | 0.124 L  | [1] |
|                                |          |     |
| <b>2(a)</b>                    | 6000 ml  | [1] |
| <b>2(b)</b>                    | 2000 ml  | [1] |
| <b>2(c)</b>                    | 4400 ml  | [1] |
| <b>2(d)</b>                    | 3180 ml  | [1] |
| <b>2(e)</b>                    | 266 ml   | [1] |
| <b>2(f)</b>                    | 900 ml   | [1] |
| <b>2(g)</b>                    | 3144 ml  | [1] |
| <b>2(h)</b>                    | 8197 ml  | [1] |
| <b>2(i)</b>                    | 3 ml     | [1] |
| <b>2(j)</b>                    | 158 ml   | [1] |
|                                |          |     |

|             |                    |     |
|-------------|--------------------|-----|
| <b>3(a)</b> | Could buy A, D, E  | [1] |
|             | Could not buy B, C | [1] |
| <b>3(b)</b> | Could buy C, D, E  | [1] |
|             | Could not buy A, B | [1] |
| <b>3(c)</b> | Could buy A, B, D  | [1] |
|             | Could not buy C, E | [1] |
| <b>3(d)</b> | D                  | [1] |

|             |  |   |
|-------------|--|---|
| <b>4(a)</b> | Identifies Tea as smallest and still water as largest. | [1]   |
|             | Tea, Coffee, Cola, Flavoured water, Still water        | [1] Accept reverse.   |
| <b>4(b)</b> | She cannot order coffee or tea                         | [1] Award if stated she can <b>ONLY</b> order Cola, Flavoured water and Still water |
|             | No   | [1]   |

|             |   |     |
|-------------|---|-----|
| <b>5(a)</b> | Belle consumed the most, Caitlin consumed the least | [1] |
| <b>5(b)</b> | Abdul, Belle, Don and Friedrich are healthy         | [1] |
|             | Caitlin and Esme are not healthy                    | [1] |

|             |          |     |
|-------------|----------|-----|
| <b>6(a)</b> | 700 ml   | [1] |
| <b>6(b)</b> | 800 ml   | [1] |
| <b>6(c)</b> | 700 ml   | [1] |
| <b>6(d)</b> | 270 ml   | [1] |
| <b>6(e)</b> | 187 ml   | [1] |
| <b>6(f)</b> | 26 ml    | [1] |
| <b>6(g)</b> | 1330 ml  | [1] |
| <b>6(h)</b> | 2691 ml  | [1] |
| <b>6(i)</b> | 3188 ml  | [1] |
| <b>6(j)</b> | 53269 ml | [1] |

|             |         |     |
|-------------|---------|-----|
| <b>7(a)</b> | 7 L     | [1] |
| <b>7(b)</b> | 10 L    | [1] |
| <b>7(c)</b> | 37 L    | [1] |
| <b>7(d)</b> | 0.6 L   | [1] |
| <b>7(e)</b> | 1.1 L   | [1] |
| <b>7(f)</b> | 0.27 L  | [1] |
| <b>7(g)</b> | 0.063 L | [1] |
| <b>7(h)</b> | 0.264 L | [1] |
| <b>7(i)</b> | 0.009 L | [1] |
| <b>7(j)</b> | 30137 L | [1] |

|          |                     |     |
|----------|---------------------|-----|
| <b>8</b> | She can buy A, D    | [1] |
|          | She cannot buy B, C | [1] |

|             |                           |   |
|-------------|---------------------------|---|
| <b>9(a)</b> | 250 + 300 (= 550)         | [1]   |
|             | 550 ml                    | [1]   |
| <b>9(b)</b> | 500 + 750 + 300 (= 1550)  | [1]   |
|             | 1550 ml                   | [1]   |
| <b>9(c)</b> | 450 + 1000 + 250 (= 1700) | [1]   |
|             | 1700 ml                   | [1]   |
| <b>9(d)</b> | 1550 + 1700 (= 3250)      | [1] Accept adding all drinks up separately. |
|             | 3250 ml                   | [1]   |

|              |                                    |                        |
|--------------|------------------------------------|------------------------|
| <b>10(a)</b> | 2000 – 500 (= 1500)                | [1]                    |
|              | 1500 ml                            | [1]                    |
| <b>10(b)</b> | 1500 – 330 – 568 (= 602)           | [1] Allow ecf from (a) |
|              | 602 ml                             | [1] Allow ecf from (a) |
| <b>10(c)</b> | Yes because 602 is larger than 500 | [1] Allow ecf from (b) |
|              | $602 - 500 = 102$ ml               | [1] Allow ecf from (b) |

|              |                                 |     |
|--------------|---------------------------------|-----|
| <b>11(a)</b> | $2.4 \times 50 (= 120)$         | [1] |
|              | 120 L                           | [1] |
| <b>11(b)</b> | $10 \times 11 (= 110)$          | [1] |
|              | 110 L                           | [1] |
| <b>11(c)</b> | No                              | [1] |
|              | Because 110 is smaller than 120 | [1] |

|           |  |     |
|-----------|--|-----|
| <b>12</b> | $360 \div 18 = 20$ barrels of Strongberg's Extra Special Lager | [1] |
|           | $54 \div 18 = 3$ barrels of House Brew                         | [1] |
|           | $126 \div 18 = 7$ barrels of Cherry Cola                       | [1] |
|           | $36 \div 2 = 2$ barrels of Fenland Coffee                      | [1] |

|              |  |     |
|--------------|--|-----|
| <b>13(a)</b> | 4 L = 4000 ml <b>or</b> 2000 ml = 2 L            | [1] |
|              | 4 L  | [1] |
| <b>13(b)</b> | 3000 ml = 3 L <b>or</b> 6 L = 6000 ml            | [1] |
|              | 6 L  | [1] |
| <b>13(c)</b> | 0.4 L = 400 ml <b>or</b> 500 ml = 0.5 L          | [1] |
|              | 500 ml   | [1] |
| <b>13(d)</b> | 0.02 L = 20 ml <b>or</b> 30 ml = 0.03 L          | [1] |
|              | 30 ml  | [1] |
| <b>13(e)</b> | 6 ml = 0.006 L <b>or</b> 0.034 L = 34 ml         | [1] |
|              | 0.034 L  | [1] |
| <b>13(f)</b> | 6274 ml = 6.274 L <b>or</b> 6.252 L = 6252 ml    | [1] |
|              | 6274 ml  | [1] |
| <b>13(g)</b> | 23.12 L = 23120 ml <b>or</b> 23346 ml = 23.346 L | [1] |
|              | 23346 ml   | [1] |
| <b>13(h)</b> | 24 ml = 0.024 L <b>or</b> 0.026 L = 26 ml        | [1] |
|              | 0.026 L  | [1] |

|              |                                |  |
|--------------|--------------------------------|--|
| <b>14(a)</b> | 1 L = 1000 ml                  | [1] Accept conversion of everything into L |
|              | 3.048 L = 3048 ml              | [1] Accept conversion of everything into L |
|              | D is largest, A is smallest    | [1]  |
| <b>14(b)</b> | E is largest out of B, C and E | [1]  |
|              | E is best value for money      | [1]  |

|       |  |     |
|-------|--|-----|
| 15(a) | 400 ml = 0.4 L <b>or</b> 0.5 L = 500 ml                            | [1] |
|       | 0.4 + 0.5 = 0.9 L <b>or</b> 400 + 500 = 900 ml                     | [1] |
| 15(b) | 2000 ml = 2 L <b>or</b> 3 L = 3000 ml                              | [1] |
|       | 2 + 3 = 5 L <b>or</b> 2000 + 3000 = 5000 ml                        | [1] |
| 15(c) | 38 ml = 0.038 L <b>or</b> 0.052 L = 52 ml                          | [1] |
|       | 0.038 + 0.052 = 0.09 L <b>or</b> 38 + 52 = 90 ml                   | [1] |
| 15(d) | 0.114 L = 114 ml <b>or</b> 52 ml = 0.052 L                         | [1] |
|       | 114 + 52 = 166 ml <b>or</b> 0.114 + 0.052 = 0.166 L                | [1] |
| 15(e) | 24300 ml = 24.3 L <b>or</b> 18.177 L = 18177 ml                    | [1] |
|       | 24.3 + 18.177 = 42.477 L <b>or</b> 24300 + 18177 = 42477 ml        | [1] |
| 15(f) | 0.156 L = 156 ml <b>or</b> 388 ml = 0.388 L, 211 ml = 0.211 L      | [1] |
|       | 388 + 156 + 211 = 755 ml <b>or</b> 0.388 + 0.156 + 0.211 = 0.755 L | [1] |

|       |  |     |
|-------|--|-----|
| 16(a) | 5 L = 5000 ml <b>or</b> 568 ml = 0.568 L   | [1] |
|       | 5000 + 568 = 5568 ml <b>or</b> 5 + 0.568 = 5.568 L   | [1] |
| 16(b) | 0.5 L = 500 ml <b>or</b> 2000 ml = 2 L, 0.25 L = 250 ml <b>or</b> 750 ml = 0.75 L  | [1] |
|       | 500 + 250 + 2000 + 750 = 3500 ml <b>or</b> 0.5 + 0.25 + 2 + 0.75 = 3.5 L   | [1] |
| 16(c) | Largest bottle is E.   | [1] |
|       | Smallest bottle is D.  | [1] |
|       | 5 + 0.25 = 5.25 L  | [1] |
| 16(d) | 1 L = 1000 ml <b>or</b> 400 ml = 0.4 L, 330 ml = 0.33 L  | [1] |
|       | 500 + 400 + 330 + 250 + 5000 + 2000 + 568 + 1000 + 750 = 10798 ml <b>or</b> 0.5 + 0.4 + 0.33 + 0.25 + 5 + 2 + 5.68 + 1 + 0.75 = 10.798 L | [1] |

|       |   |                             |
|-------|---|-----------------------------|
| 17(a) | 1.5 L = 1500 ml <b>or</b> $1.5 \div 2 = 0.75$ L, 0.75 L = 750 ml <b>or</b> $1500 \div 2 = 750$ ml | [1]                         |
|       | 2 L = 2000 ml <b>or</b> $2 \div 4 = 0.5$ L, 0.5 L = 500 ml <b>or</b> $2000 \div 4 = 500$ ml       | [1]                         |
|       | $900 \div 3 = 300$ ml   | [1]                         |
| 17(b) | $750 \div 3 (=250)$   | [1] Allow ecf from part (a) |
|       | $300 + 250 = 550$ ml  | [1] Allow ecf from part (a) |
| 17(c) | $550 \div 2 (=275)$   | [1] Allow ecf from part (b) |
|       | $500 + 275 (=775)$  | [1] Allow ecf from part (b) |
|       | $775 \div 1000 = 0.775$ L   | [1] Allow ecf from part (b) |