

Solutions

Award method and answer marks as indicated; accept equivalent correct methods.

2.1

- Below excludes equality: $T < 4$ (in degrees Celsius).

2.2

- At least includes the endpoint: $m \geq 12$ (in kg).

2.3

- Exclude -1 and include 3 : $0, 1, 2, 3$.

2.4

- **Filled circle at 1, open circle at 4, segment between.** These show which endpoints belong.

3.1

(a)

- **2 kg is accepted; 5 kg is not** because the upper inequality is strict.

(b)

- **2, 3 and 4 kg** are the whole-number values inside the interval.

(c)

- **Filled circle at 2, open at 5, shade between.**

3.2

(a)

- **120 and 149.9 cm qualify.**
- **150 cm does not.**
- The $\leq$ includes 120, while $<$ excludes 150.

(b)

- The integer ages are **12, 13, 14, 15.**
- Use an **open point at 11 and filled point at 15**, shading the segment between them.