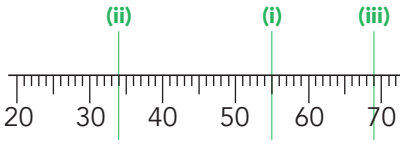
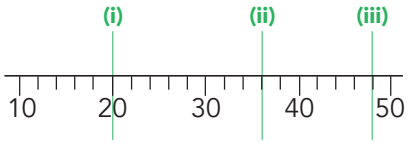
Exercise 9.2

1. Draw a mark or arrow pointing to the given values on each scale:

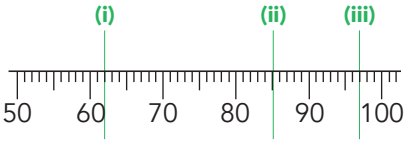
(a) **(i)** 55 **(ii)** 34 **(iii)** 69



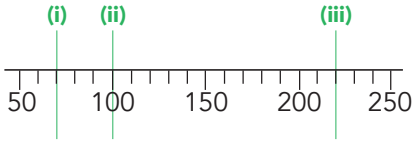
(b) **(i)** 20 **(ii)** 36 **(iii)** 48



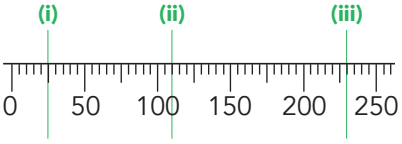
(c) **(i)** 62 **(ii)** 85 **(iii)** 97



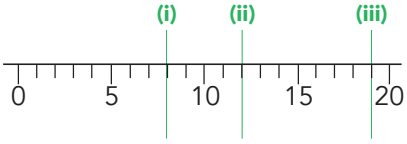
(d) **(i)** 70 **(ii)** 100 **(iii)** 220



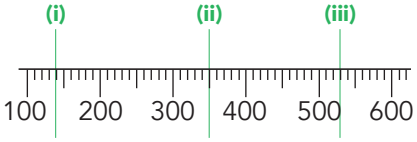
(e) **(i)** 25 **(ii)** 110 **(iii)** 230



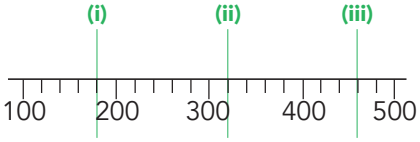
(f) **(i)** 8 **(ii)** 12 **(iii)** 19



(g) **(i)** 140 **(ii)** 350 **(iii)** 530

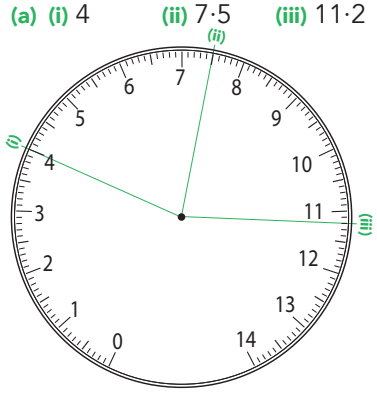


(h) **(i)** 180 **(ii)** 320 **(iii)** 460

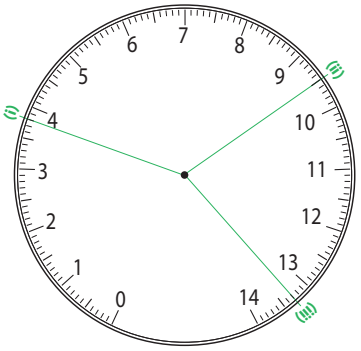


2. Draw a line from the centre dot pointing to the given values on each scale:

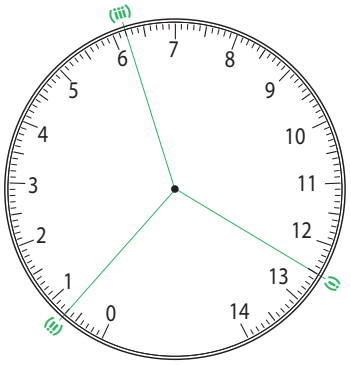
(a) **(i)** 4 **(ii)** 7·5 **(iii)** 11·2



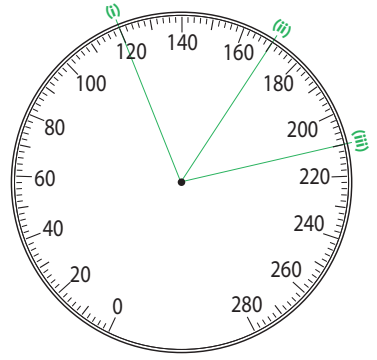
(b) **(i)** 3·8 **(ii)** 9·5 **(iii)** 13·3



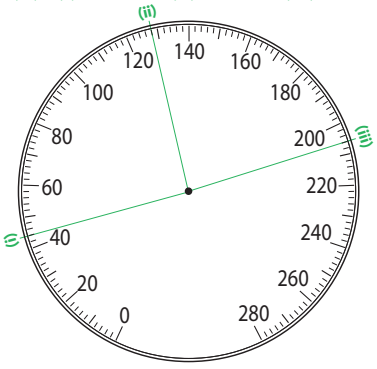
(c) **(i)** 12·5 **(ii)** 0·7 **(iii)** 6·2



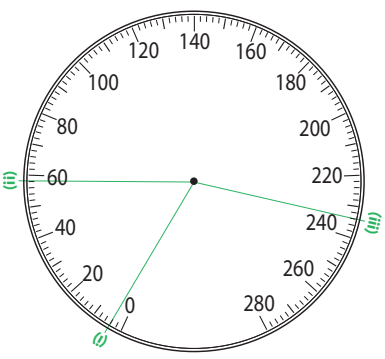
(d) **(i)** 120 **(ii)** 170 **(iii)** 210



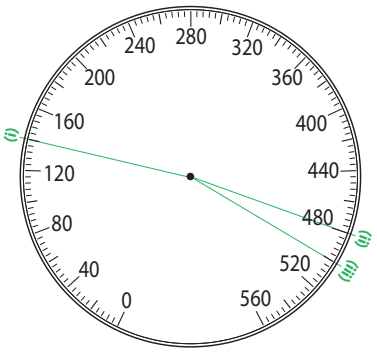
(e) **(i)** 44 **(ii)** 128 **(iii)** 206



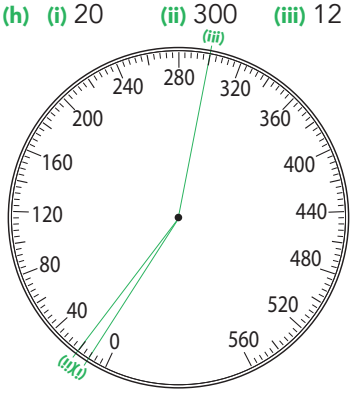
(f) **(i)** 4 **(ii)** 58 **(iii)** 234



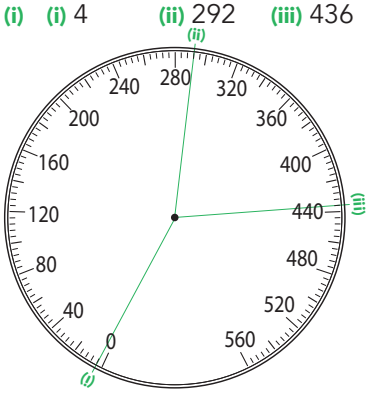
(g) (i) 140 **(ii)** 480 **(iii)** 500



(h) (i) 20 **(ii)** 300 **(iii)** 12

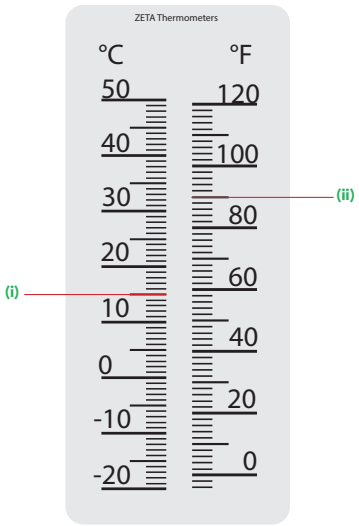


(i) (i) 4 **(ii)** 292 **(iii)** 436

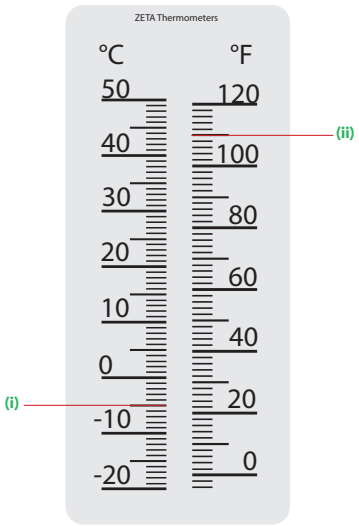


3. Mark the value of the scale in °C or °F to the nearest degree:

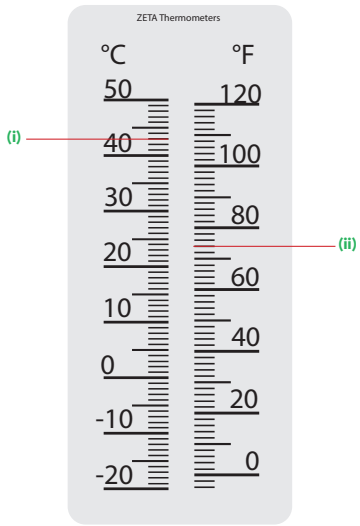
(a) (i) 15°C **(ii)** 90°F



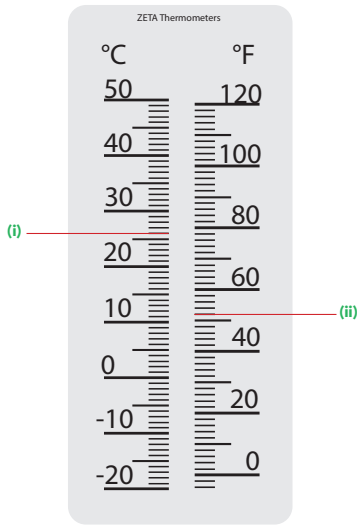
(b) (i) –5°C **(ii)** 110°F



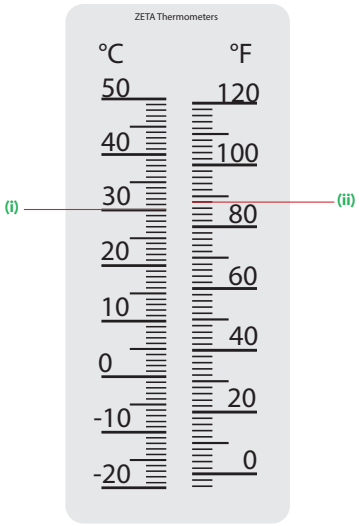
(c) (i) 43°C **(ii)** 74°F



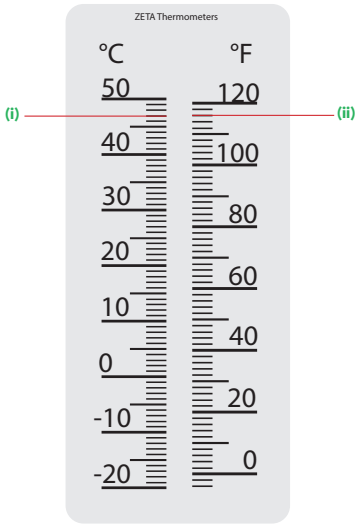
(d) (i) 26°C **(ii)** 52°F



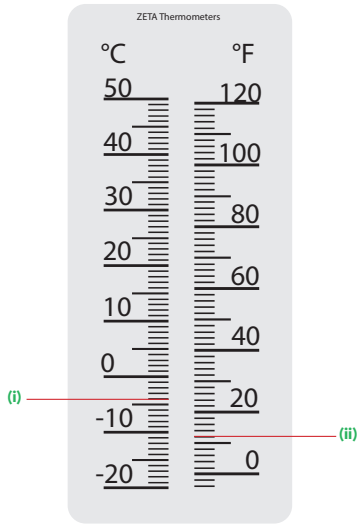
(e) (i) 30°C **(ii)** 88°F



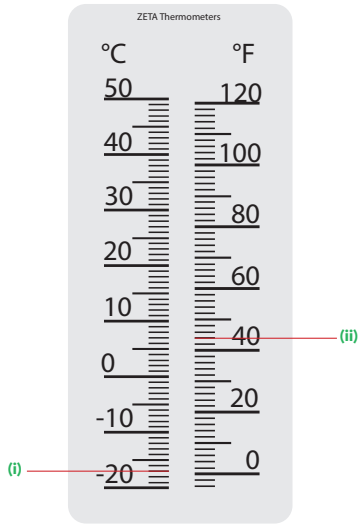
(f) (i) 47°C **(ii)** 116°F



(g) (i) –4°C **(ii)** 12°F

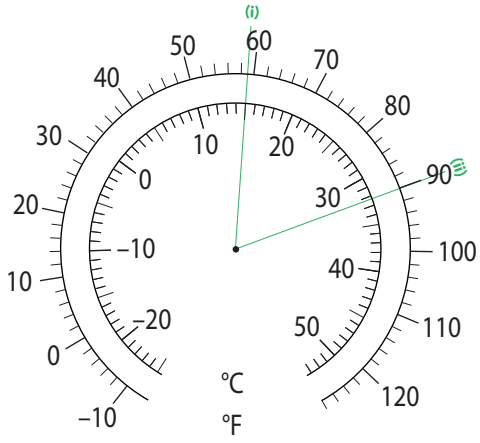


(h) (i) –17°C **(ii)** 44°F

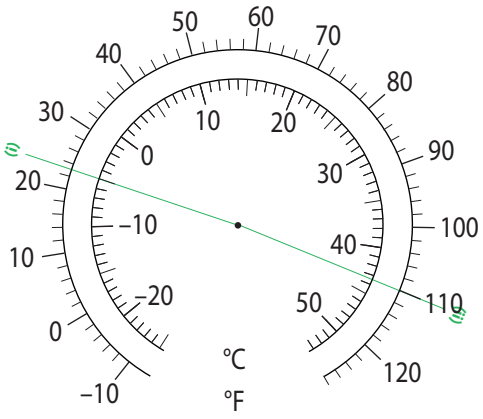


4. Read/calculate the value of the scale for each coloured line in **(i)** °C and **(ii)** °F to the nearest degree:

(a) (i) 15°C **(ii)** 90°F

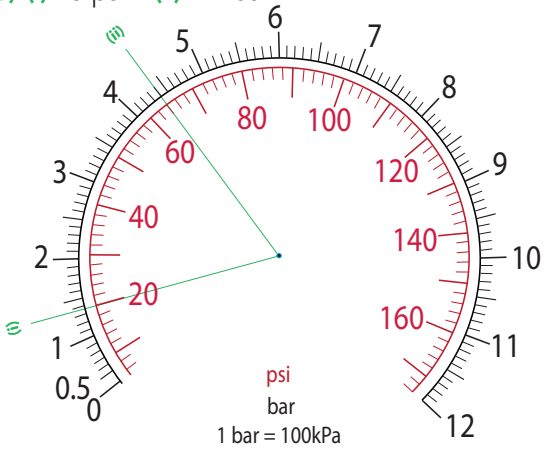


(b) (i) –5°C **(ii)** 110°F

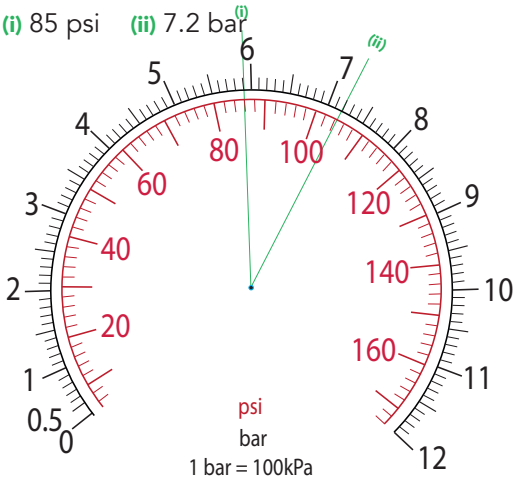


5. Read/calculate the value of the scale for each coloured line in **(i)** psi and **(ii)** bar (to 1 decimal place):

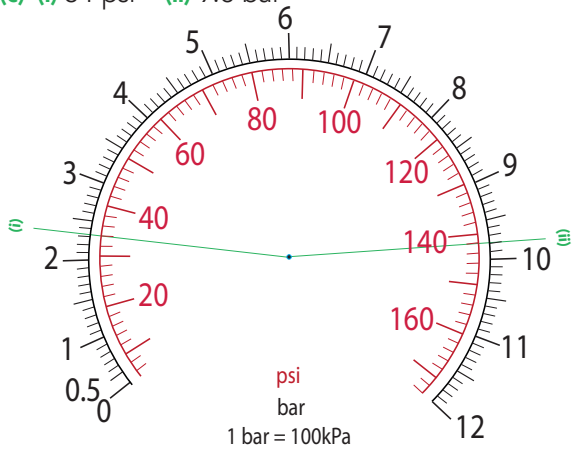
(a) (i) 20 psi **(ii)** 4.4 bar



(b) (i) 85 psi **(ii)** 7.2 bar



(c) (i) 34 psi **(ii)** 9.8 bar



(d) (i) 146 psi **(ii)** 11.3 bar