

- 1 One January day in Munich, the temperature at noon was 3°C .
At midnight the temperature was -8°C .

Write down the difference between these two temperatures.

$$\begin{aligned} 3 - (-8) &= 3 + 8 \\ &= 11 \end{aligned}$$

Answer 11 $^{\circ}\text{C}$ [1]

- 2 (a) Calculate $\sqrt{5.7} - 1.03^2$.

Write down all the numbers displayed on your calculator.

Answer(a) 1.326567277262... [1]

- (b) Write your answer to part (a) correct to 3 decimal places.

Answer(b) 1.327 [1]

- 3 Pedro and Eva do their homework.
Pedro takes 84 minutes to do his homework.

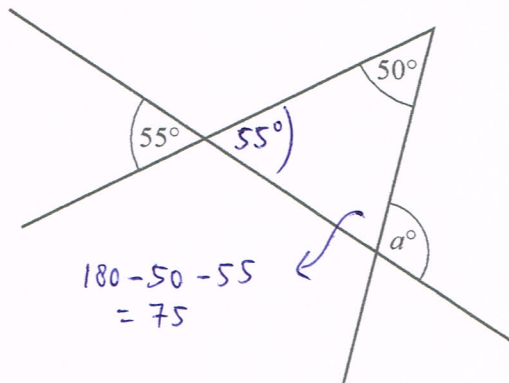
The ratio Pedro's time : Eva's time = 7 : 6.

Work out the number of minutes Eva takes to do her homework.

$$\frac{6}{7} \times 84 \text{ min} = 72 \text{ min}$$

Answer 72 min [2]

4



NOT TO
SCALE

Use the information in the diagram to find the value of a .

$$\begin{aligned} a &= 180 - 75 \\ &= 105 \end{aligned}$$

Answer $a =$ 105 [2]