

m2 = 11 days to go!

- 19 (a) Calculate the circumference of a circle with diameter 2 m.

$$C = \pi d$$

Remember the "Circle Song"

$$C = \pi (2)$$

$$C =$$

Answer 6.28 m [2]

- (b) Hence calculate the perimeter of the window below, which is made up of a semicircle and a rectangle.

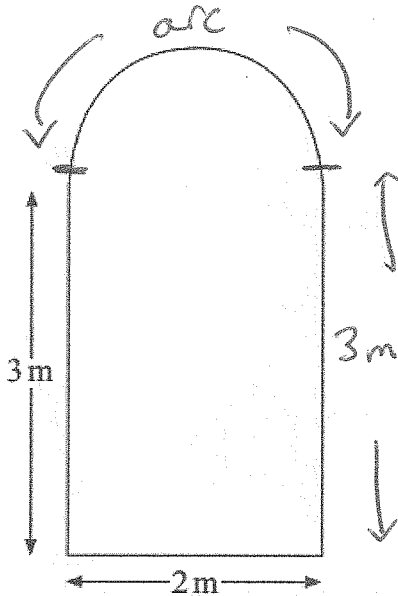


diagram not
drawn accurately

$$\text{Arc} = \text{Circle} \div 2$$

$$\text{Arc} = 3.14$$

$$\text{Perimeter} = 3 + 2 + 3 + 3.14$$

Ans 11.1 m (1 dec. pl.)

- 20 A salesman recorded the average temperature ($^{\circ}\text{C}$) and his ice-cream sales (£) during 8 weeks of the summer.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Average Temperature ($^{\circ}\text{C}$)	13	12	14	16	14	18	17	18
Sales (£)	238	206	264	330	272	398	364	392

- (a) The first three points have already been plotted.
Use the data to complete the scatter graph.

[2]

- (b) Draw the line of best fit.

use ruler

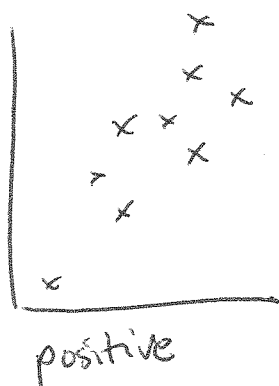
[1]

- (c) In Week 9 the average temperature was 15°C .
Use the graph to estimate the sales for Week 9

Answer £ 298 [1]

- (d) What type of correlation does your graph show?

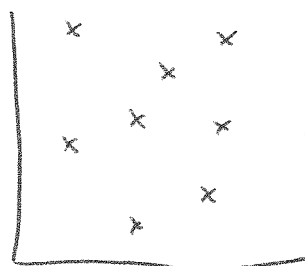
Answer Positive [1]



as one thing goes up so does the other.



as one thing goes up then the other goes down



↑ Each square is 2

