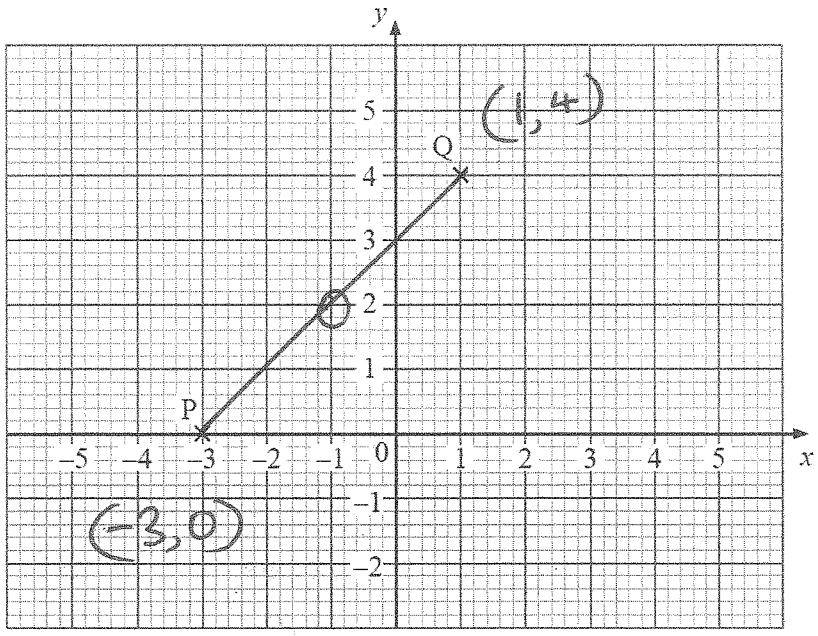
M2 = 23 days to go!

3



½ way between −3 and 1

What are the co-ordinates of the midpoint of PQ?

$\left(\frac{1+-3}{2}, \frac{0+4}{2}\right)$

$\left(\frac{-2}{2}, \frac{4}{2}\right)$

Answer (−1 , 2) [2]

13 Male and female care assistants work in a nursing home.

Some can work weekdays only, some can work weekends only and some can work both.

(a) Complete the two-way table below.

1+5+2 = 8

columns add to the totals

	Weekdays only	Weekends only	Both	Total
Male	1	5	2	8
Female	2	3	8	13
Total	3	8	10	21

[2]

1+2 = 3

rows add to the totals

(b) How many male care assistants can work on weekends?

Male 5 + 2

only weekend both

Answer 7 [1]

24 Sue is training to compete in a 10 km walk.

A diagram of her local athletics track is shown below.

The track consists of a rectangle and two semicircles.

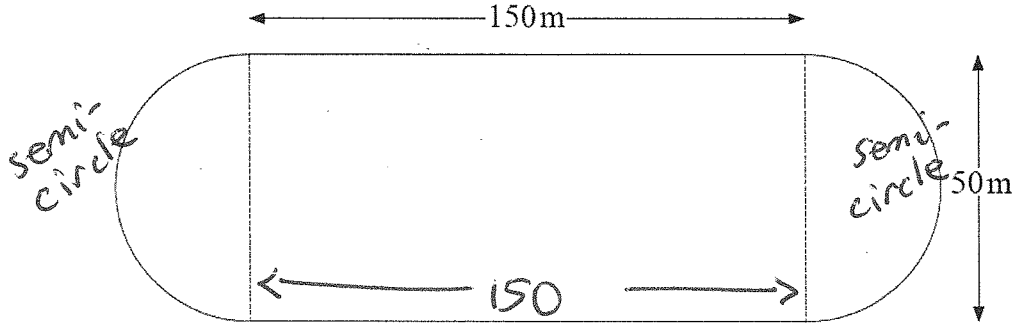


diagram not drawn accurately

How many complete laps are needed to ensure she walks 10 km? 10000m

You must show all your working.

$C = \pi d$

$C = \pi \times 50$

$C = 157.1\text{m}$

Lap = 150 + 150 + 157.1

Lap = 457.1

How many laps

10000 ÷ 457.1 = 21.87

You need 22

Answer 22 laps [4]