1. 54 327 people watched a concert.

(a) Write 54 327 to the nearest thousand.

.....

(1)

(b) Write down the value of the 5 in the number 54 327.

.....

(1)

(Total 2 marks)

2. Work out an estimate for the value of $\frac{7.8 \times 5.3}{10.3}$

……

(Total 2 marks)

3. On average, Nick walks 18 000 steps every day.
He walks 1 mile approximately every 3500 steps.

Work out an estimate for the average distance, in miles, that Nick walks **in one year.**

..... miles

(Total 3 marks)

4. Each side of a regular pentagon has a length of 101 mm, correct to the nearest millimetre.

(i) Write down the **least** possible length of each side.

..... mm

(ii) Write down the **greatest** possible length of each side.

..... mm

(Total 2 marks)

Mark Scheme

1. (a) 54 000 1

B1 cao accept 54 thousand

(b) 50 000 1

B1 (accept ten thousand or 10 000) oe

[2]

2. 4 2

B2 for 4
(B1 for sight of 8, 5 or 10)

[2]

3. 2000 3

$\frac{18000 \times 365}{3500}$
$\frac{20000 \times 400}{4000}$

M1 for – 3500 or – 4000 or 5 seen
M1 for × 365 or × 400 or × 7 × 4 × 12
A1 for answer in range 1800 - 2300

[3]

4. (i) 100.5 2

Least length = 100.5

B1 for 100.5

(ii) 101.5

Greatest length = 101.5

B1 for 101.5; ACCEPT 101.499 or better

[2]