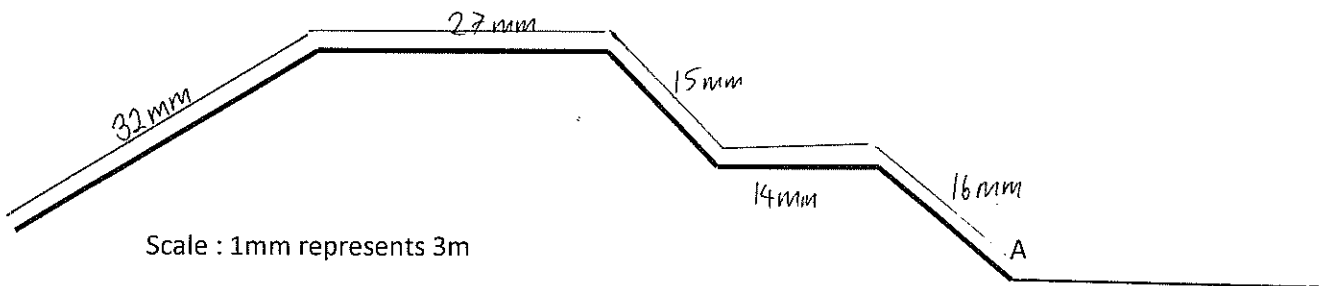


2. Below is a drawing of a part of the track of a roller coaster ride.

a) Draw the locus of a carriage 6m above the track.

[1]



b) Using the scale given in the drawing calculate how long the ride is?

$$104 \text{ mm} \times 3 = 312 \text{ m}$$

$$\underline{303 - 321 \text{ m}} \quad \checkmark \quad [2]$$

c) Accurately draw an extra section of the roller coaster ride at the end marked A that represents 90 metres using the scale given in the diagram.

Show how you calculated the length of the line you need to draw in.

$$90 \div 3 = 30 \text{ mm}$$

length drawn accurately $\pm 2 \text{ mm}$ \checkmark

[2]

3. Joanne was born in January 1985 and is 19 years old. How old will she be in December 2013?

$$\underline{28} \quad [1]$$

4. Using the number 38624 give the:

a) place value of the 6 $\underline{100\text{'s}}$ [1]

b) value of the 8 $\underline{8000}$ [1]

c) round the number to the nearest hundred $\underline{38600}$ [1]

d) write the number in expanded form.

$$\underline{3 \times 10,000 + 8 \times 1000 + 6 \times 100 + 2 \times 10 + 4} \quad [1]$$