

- Give a reason to support the use of a histogram to represent these data. (1)
- Write down the underlying feature associated with each of the bars in a histogram. (1)
- Show that on this histogram each child was represented by 0.8 cm^2 . (3)

The total area under the histogram was 24 cm^2

- Find the total number of children in the group. (2)

Solutions

1a.

Time is a continuous variable	M1
(or ,data is in a grouped frequency table.)	(M1)

1b.

Area is proportional to frequency	M1
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1c.

$3.6 \times 2 = x \times 9$	M1
$x = 0.8$	M1
Therefore, 1 child is represented by 0.8	M1

1d.

Total = $\frac{24}{0.8}$	M1
= 30	M1

