Box plots

Exit ticket ANSWERS Name _____

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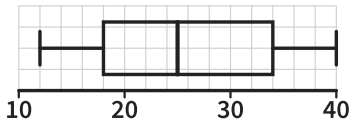
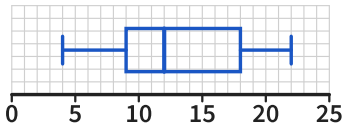


25

2. Find the interquartile range of the ages in question 1.

34 – 18 = 16

3. Lowest 4, lower quartile 9, median 12, upper quartile 18, highest 22.
Draw a box plot.



The Maths Habit

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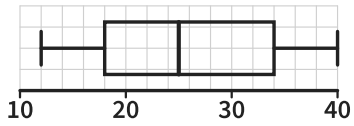

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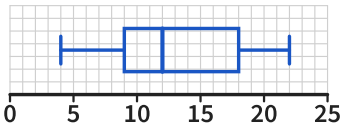

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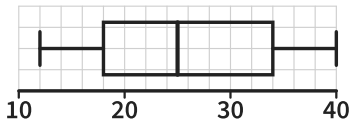

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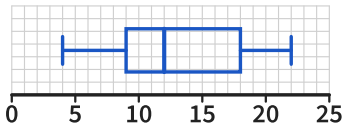

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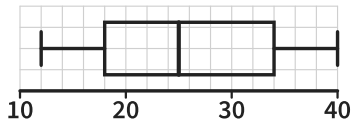

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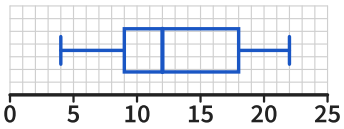

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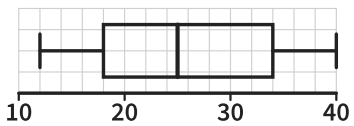

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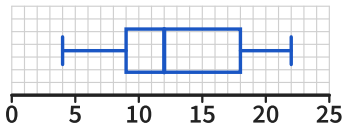

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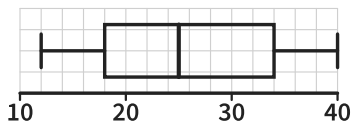

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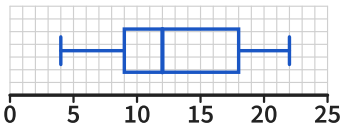

The Maths Habit

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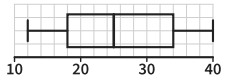

TESTS Reading the median off a box plot

LOOK FOR

26 the middle of the box: the median is the line inside it, wherever it is

18 or 34 a quartile, an end of the box, not the line inside it

FIX IT

A box plot has its box from 26 to 39 and the line inside the box at 31. What is the median? *31*

---

2 **Find the interquartile range of the ages in question 1.**

34 – 18 = 16

TESTS The interquartile range: the upper quartile take away the lower

LOOK FOR

28 the range: highest take away lowest

7 the median take away the lower quartile

FIX IT

Lowest 20, lower quartile 26, median 31, upper quartile 39, highest 45. Find the interquartile range. *39 – 26 = 13*

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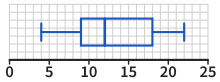
3 **Lowest 4, lower quartile 9, median 12, upper quartile 18, highest 22. Draw a box plot.**

box 9 to 18, median 12, whiskers to 4 and 22



TESTS Drawing a box plot from its five values

LOOK FOR

the line in the middle of the box the median drawn halfway between the quartiles, not at 12

the box from 4 to 22 the box goes from the lower to the upper quartile; the whiskers reach the lowest and highest

FIX IT

Lowest 15, lower quartile 21, median 24, upper quartile 30, highest 36. Where do the box and the whiskers go? *box 21 to 30, line at 24, whiskers to 15 and 36*