Practice worksheet | Statistics and data analysis

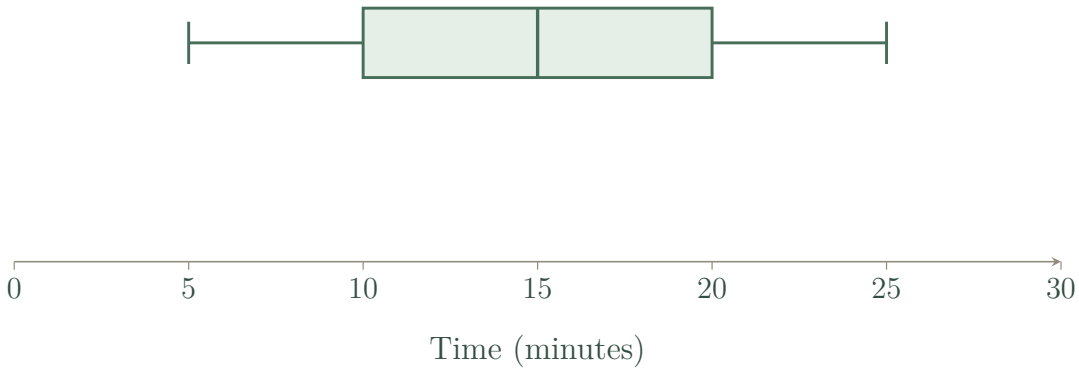
Interquartile range and box plots

Name: _____ Date: _____

6 questions | 14 marks

1. Calculate IQR when $Q_1 = 7.5$ cm and $Q_3 = 12.0$ cm. [2 marks]

2. State the five-number summary shown. [2 marks]



3. Draw a labelled box plot for the summary 2, 5, 8, 11, 15 seconds. [3 marks]

4. A: median 20, IQR 6. B: median 24, IQR 4. Compare the typical mass and central spread. [3 marks]

5. Can a box plot alone tell you the exact mean? Explain. [2 marks]

6. Two plots use horizontal scales 0-20 and 0-100. Why should you redraw them before comparing box widths? [2 marks]