

- 1 Two groups of students performed similar experiments to measure the acceleration due to gravity g . Their results are shown in Fig. 1.1.

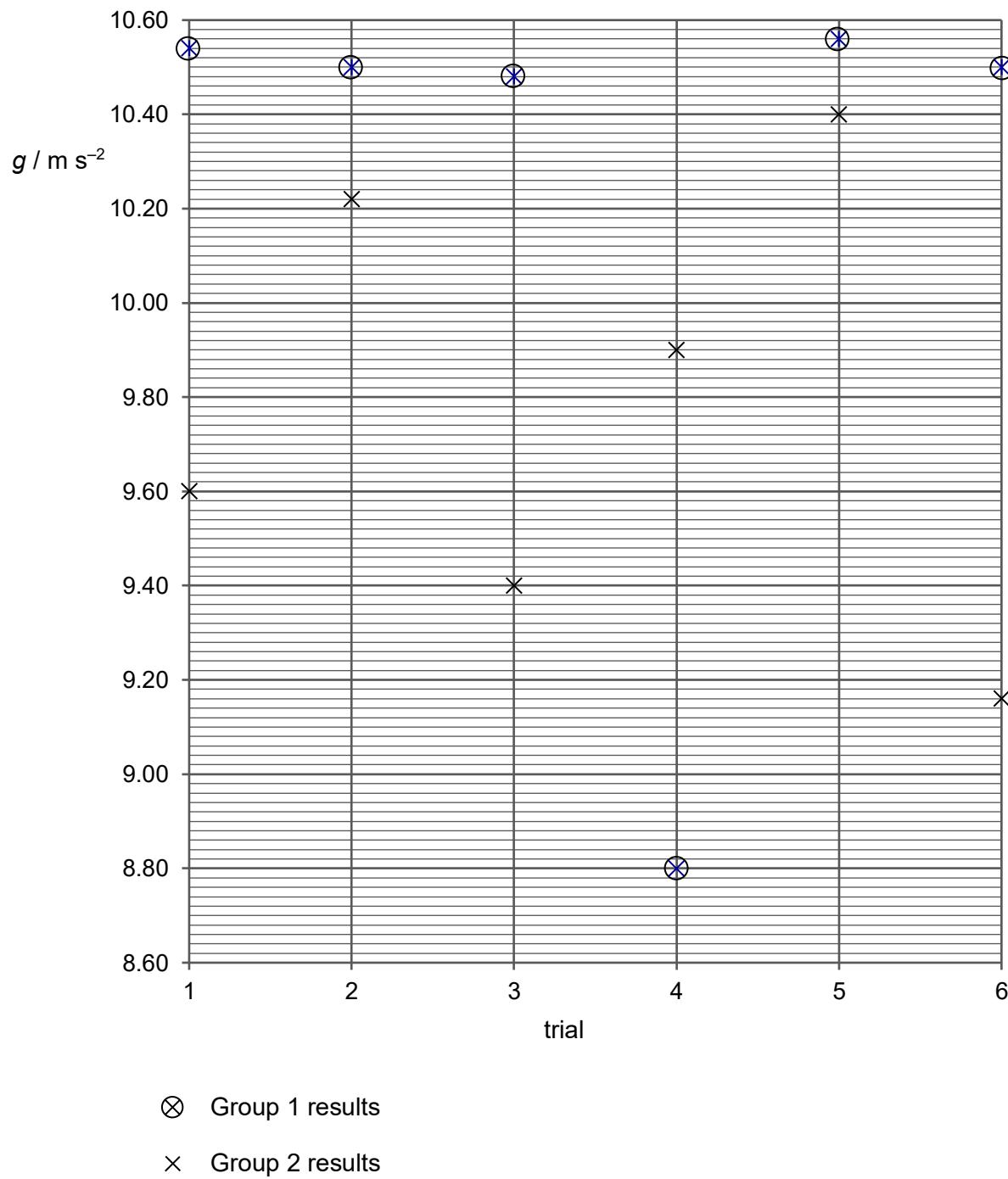


Fig. 1.1

The accepted value for g is 9.81 m s^{-2} .

Use Fig. 1.1 to answer the following questions. You should make calculations with clear working in support of your answer.

State and explain which group of results has

- (a) larger *systematic* errors,

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[2]

- (b) larger *random* errors.

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[2]

[Total: 4]

