**JRA Tutors**
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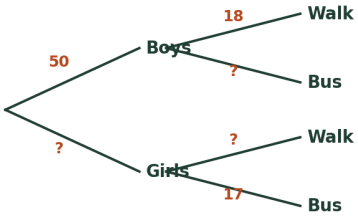
# Frequency Trees

Grade 3 topic · Foundation and Higher · Edexcel and AQA

**How to use this pack**
20 questions that get harder as you go. Foundation students: aim for Questions 1–15 (55 marks) and have a go at the rest. Higher students: complete all 20. Show your working on the lines and write your final answer on the answer line, then mark yourself with the answers at the back. Diagrams are not drawn accurately. Total: 80 marks.

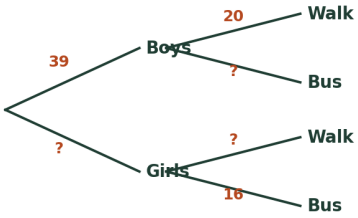
## Warm-up

**1** 100 students are asked how they travel to school. The frequency tree shows some of the results. Work out the missing numbers. **[3 marks]**



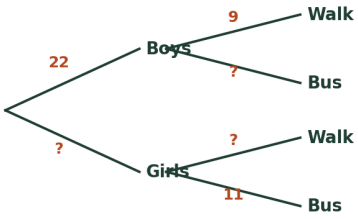

**Answer** _____

**2** 100 students are asked how they travel to school. The frequency tree shows some of the results. Work out the missing numbers. **[3 marks]**



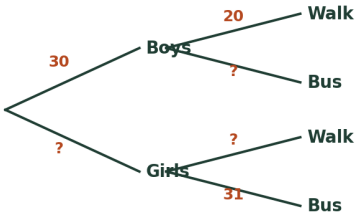

**Answer** _____

**3** 50 students are asked how they travel to school. The frequency tree shows some of the results. Work out the missing numbers. **[3 marks]**



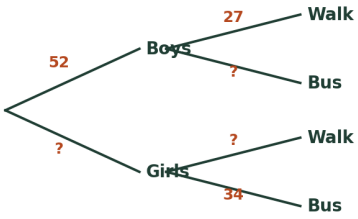

**Answer** _____

**4** 80 students are asked how they travel to school. The frequency tree shows some of the results. Work out the missing numbers. **[3 marks]**




**Answer** _____

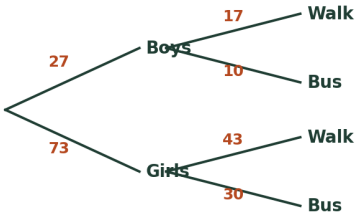
**5** 120 students are asked how they travel to school. The frequency tree shows some of the results. Work out the missing numbers. **[3 marks]**




**Answer** _____

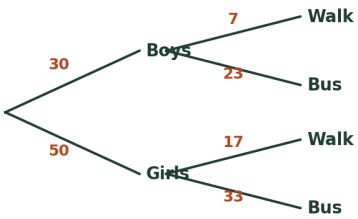
## Core

**6** 100 students are asked about travel. 27 are boys; 17 boys and 43 girls walk. Complete a frequency tree and work out how many students walk altogether. **[4 marks]**



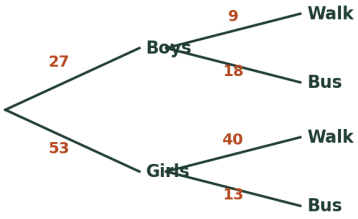

**Answer** _____

**7** 80 students are asked about travel. 30 are boys; 7 boys and 17 girls walk. Complete a frequency tree and work out how many students walk altogether. **[4 marks]**



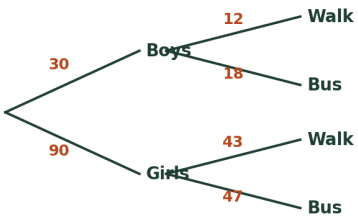

**Answer** _____

**8** 80 students are asked about travel. 27 are boys; 9 boys and 40 girls walk. Complete a frequency tree and work out how many students walk altogether. **[4 marks]**



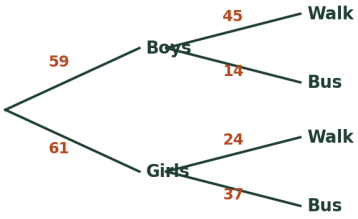

**Answer** _____

**9** 120 students are asked about travel. 30 are boys; 12 boys and 43 girls walk. Complete a frequency tree and work out how many students walk altogether. **[4 marks]**




**Answer** _____

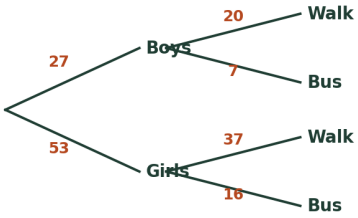
**10** 120 students are asked about travel. 59 are boys; 45 boys and 24 girls walk. Complete a frequency tree and work out how many students walk altogether. **[4 marks]**




Answer _____

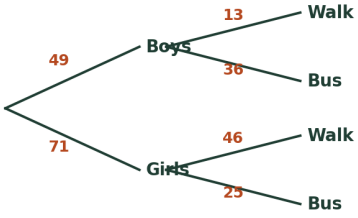
## Stretch

**11** Using the frequency tree, what fraction of the students travel by bus? Give your answer in its simplest form. **[4 marks]**



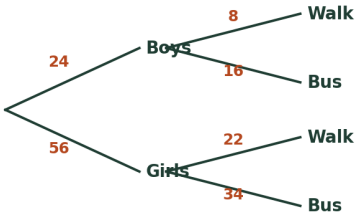

**Answer** _____

**12** Using the frequency tree, what fraction of the students travel by bus? Give your answer in its simplest form. **[4 marks]**



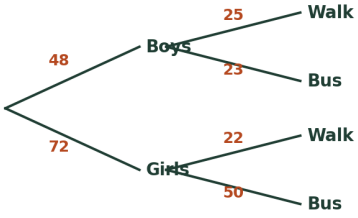

**Answer** _____

**13** Using the frequency tree, what fraction of the students travel by bus? Give your answer in its simplest form. **[4 marks]**



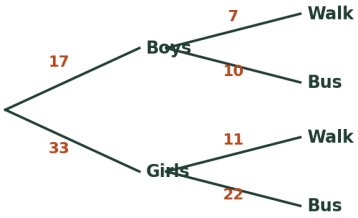

**Answer** _____

**14** Using the frequency tree, what fraction of the students travel by bus? Give your answer in its simplest form. **[4 marks]**




**Answer** _____

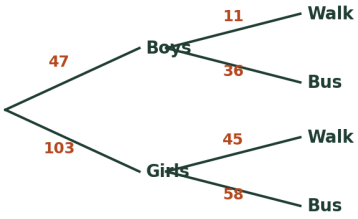
**15** Using the frequency tree, what fraction of the students travel by bus? Give your answer in its simplest form. **[4 marks]**




**Answer** _____

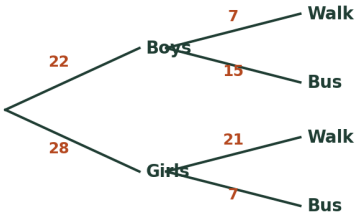
## Challenge

**16** One student is chosen at random from the 150 students in the frequency tree. Work out the probability the student is a girl who walks. Give your answer as a fraction in simplest form. **[5 marks]**



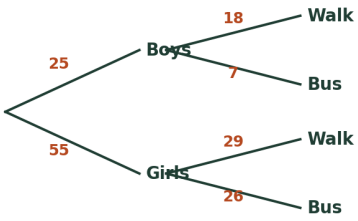

**Answer** _____

**17** One student is chosen at random from the 50 students in the frequency tree. Work out the probability the student is a girl who walks. Give your answer as a fraction in simplest form. **[5 marks]**



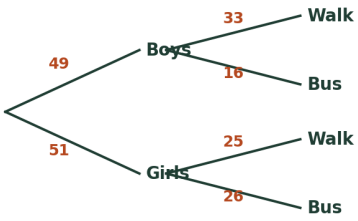

**Answer** _____

**18** One student is chosen at random from the 80 students in the frequency tree. Work out the probability the student is a girl who walks. Give your answer as a fraction in simplest form. **[5 marks]**



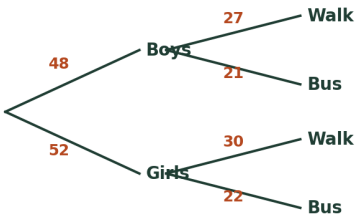

**Answer** _____

**19** One student is chosen at random from the 100 students in the frequency tree. Work out the probability the student is a girl who walks. Give your answer as a fraction in simplest form. **[5 marks]**




**Answer** _____

**20** One student is chosen at random from the 100 students in the frequency tree. Work out the probability the student is a girl who walks. Give your answer as a fraction in simplest form. **[5 marks]**




**Answer** _____