

14) Car tyres are checked for safety by measuring the tread. The tread on a tyre and the distance travelled by that tyre were recorded for a sample of tyres. The scatter graph shows the results.



end of year 8
assessment

Tyres with a tread of less than 1.6mm are illegal.

Suppose the government changes this rule to less than 2.5mm.

(a) How many of these tyres would now be illegal?

Answer 5 (1 mark)

(b) About how many fewer kilometres would you expect a tyre to last before it was illegal?

$34,000 - 29,000$

Answer 5,000 (1 mark) (2 marks)

15) Here is some information about all the pupils in class 9A.

	girls	boys
right-handed	13	14
left-handed	1	2

A teacher is going to choose a pupil from 9A at random.

(a) What is the probability that the pupil chosen will be a girl?

Answer: $\frac{14}{30} = \frac{7}{15}$ (1 mark)

(b) What is the probability that the pupil chosen will be left-handed?

Answer: $\frac{3}{30} = \frac{1}{10}$ (1 mark)

(c) The teacher chooses the pupil at random.

She tells the class the pupil is left-handed.

What is the probability that this left-handed pupil is a boy?

Answer: $\frac{2}{3}$ (1 mark)

16) For the following set of data:

1.6, 1.7, 1.8, 1.9

Find a) the median

$1.6, 1.7, 1.8, 1.9$ in order

median = $\frac{1.7 + 1.8}{2} = 1.75$ (1)

100 - 100

7 - 3

100 = 2

100 - 100 = 0
7 - 3 = 4
100 = 2

(2 marks)

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1. Understanding the eBook Emaths Ks3 Maths Papers Answers
 - The Rise of Digital Reading Emaths Ks3 Maths Papers Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Emaths Ks3 Maths Papers Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Emaths Ks3 Maths Papers Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emaths Ks3 Maths Papers Answers
 - Personalized Recommendations
 - Emaths Ks3 Maths Papers Answers User Reviews and Ratings
 - Emaths Ks3 Maths Papers Answers and Bestseller Lists
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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Emaths Ks3 Maths Papers Answers
 - Highlighting and Note-Taking Emaths Ks3 Maths Papers Answers
 - Interactive Elements Emaths Ks3 Maths Papers Answers
- 8. Staying Engaged with Emaths Ks3 Maths Papers Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emaths Ks3 Maths Papers Answers
- 9. Balancing eBooks and Physical Books Emaths Ks3 Maths Papers Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emaths Ks3 Maths Papers Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Emaths Ks3 Maths Papers Answers
 - Setting Reading Goals Emaths Ks3 Maths Papers Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Emaths Ks3 Maths Papers Answers
 - Fact-Checking eBook Content of Emaths Ks3 Maths Papers Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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