3.3	Steven is a medical student. He is doing research on the usefulness of	
	calculating a persons' body mass index.	

Doctors check your body size by measuring your weight and height. This calculation is known as your body mass index (BMI). Research has shown that people within a "Normal" range of body size tend to live the longest and enjoy the best health. One should however remember that your BMI is only one guide to your overall health.

The scale below is used to classify the individual's weight status:

BMI	CLASSIFICATION	
Below 18.4	Underweight	
18.5 - 24.9	Normal weight	
25.0 - 29.9	Over-weight	
30.0 and above	Obese	

The table below gives the height (in meters), weight (in kilograms) and the BMI of 10 well known celebrities:

Name	Height in metres	Weight in kg	BMI (kg/m²)	
Kate Moss	1.70	48	17	
Gwyneth Paltrow	1.75	51	1.7	
Victoria Beckham	1.67	48	17	
Britney Spears	1.65	48	18	
Angelina Jolie	1.70	54	19	
Jennifer Lopez	1.67	54	19	
Kate Winslet	1.73	59	20	
Tyra Banks	1.78	73	23	
Antonio Banderas	1.83	78	23	
Arnold Schwarzeneoger	1.88	117	33	

Use the information given above and answer the following questions.

3.3.1	3.3.1 Using the BMI, calculate the range of the data.		(2)
- P. S.	Range = 33 - 17 MA	1MA 33 - 17	L1 D
 5 5	= 16 × A	1A 16	D

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S Ashworth

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- 1. Understanding the eBook Grade 11 Mathematics Caps Paper 1 Final Exam
 - The Rise of Digital Reading Grade 11 Mathematics Caps Paper 1 Final Exam
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 11 Mathematics Caps Paper 1 Final Exam
 - 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 Grade 11 Mathematics Caps Paper 1 Final Exam
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 11 Mathematics Caps Paper 1 Final Exam
 - Personalized Recommendations
 - o Grade 11 Mathematics Caps Paper 1 Final Exam User Reviews and Ratings
 - Grade 11 Mathematics Caps Paper 1 Final Exam and Bestseller Lists
- 5. Accessing Grade 11 Mathematics Caps Paper 1 Final Exam Free and Paid eBooks
 - Grade 11 Mathematics Caps Paper 1 Final Exam Public Domain eBooks
 - Grade 11 Mathematics Caps Paper 1 Final Exam eBook Subscription Services
 - Grade 11 Mathematics Caps Paper 1 Final Exam Budget-Friendly Options
- 6. Navigating Grade 11 Mathematics Caps Paper 1 Final Exam eBook Formats

- o ePub, PDF, MOBI, and More
- Grade 11 Mathematics Caps Paper 1 Final Exam Compatibility with Devices
- Grade 11 Mathematics Caps Paper 1 Final Exam Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 11 Mathematics Caps Paper 1 Final Exam
 - Highlighting and Note-Taking Grade 11 Mathematics Caps Paper 1 Final Exam
 - Interactive Elements Grade 11 Mathematics Caps Paper 1 Final Exam
- 8. Staying Engaged with Grade 11 Mathematics Caps Paper 1 Final Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 11 Mathematics Caps Paper 1 Final Exam
- 9. Balancing eBooks and Physical Books Grade 11 Mathematics Caps Paper 1 Final Exam
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Grade 11 Mathematics Caps Paper 1 Final Exam
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 11 Mathematics Caps Paper 1 Final Exam
 - Setting Reading Goals Grade 11 Mathematics Caps Paper 1 Final Exam
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 11 Mathematics Caps Paper 1 Final Exam
 - Fact-Checking eBook Content of Grade 11 Mathematics Caps Paper 1 Final Exam
 - 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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