

Mathematics: Paper 1

Content area	Subtopic/content	Skill assessed
Numbers, Operations and Relationships	Whole Numbers	
	Properties of numbers	Describe the real number system by recognising, defining and distinguishing properties of: <ul style="list-style-type: none"> – natural numbers, whole numbers, integers, rational numbers, irrational numbers
	Multiples and Factors	Use prime factorisation of numbers to find LCM and HCF
	Solving Problems	Solve problems in contexts involving ratio, rate, direct proportion, indirect proportion, finance
	Integers	
	Properties of integers	Apply commutative, associative and distributive properties of addition and multiplication for integers
		Additive and multiplicative inverses for integers
	Calculations with integers	perform calculations involving all four operations with integers
		perform calculations involving all four operations with numbers that involve the squares, cubes, square roots and cube roots of integers
	Exponents	
Calculations using numbers in exponential form	Apply the following general laws of exponents. <ul style="list-style-type: none"> – $a^m \times a^n = a^{m+n}$ – $a^m \div a^n = a^{m-n}$, if $m > n$ – $(a^m)^n = a^m \times n$ – $(a \times t)^n = a^n \times t^n$ – $a^0 = 1$ 	
	Use the general laws of exponents to include: <ul style="list-style-type: none"> – integer exponents – $a^{-m} = \frac{1}{a^m}$ 	

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jun 29 2021 on january 31 1961 nasa launched ham the chimp into suborbital flight in an mr 2 rocket making him the first chimpanzee in space while the soviets had sent dogs into space before those missions merely tried to see if they could survive

the trip

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story september 20 2023 on may 5 1961 alan shepard became the first american in space however three months earlier nasa had launched number 65 on a mission that helped pave the way for shepard s momentous flight number 65 was a male chimpanzee born in 1957 in the french cameroons in west africa

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a three year old chimpanzee named ham in the biopack couch for the mr 2 suborbital test flight hams training took place in part at cape canaveral s hangar s on jan 31 1961 a mercury redstone launched from cape canaveral carrying the ham over 400 miles down range in an arching trajectory that reached a peak of 158 miles above the

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the success of ham s flight helped ratchet up even further the already frantic contest for scientific and space supremacy between the u s and the soviet union and briefly made ham something of a star here life com commemorates ham s 16 minute suborbital mission with photos taken before during and after his wild ride