

Year 9 (2021)


MATHEMATICS

Term 1 Examination Task Notification

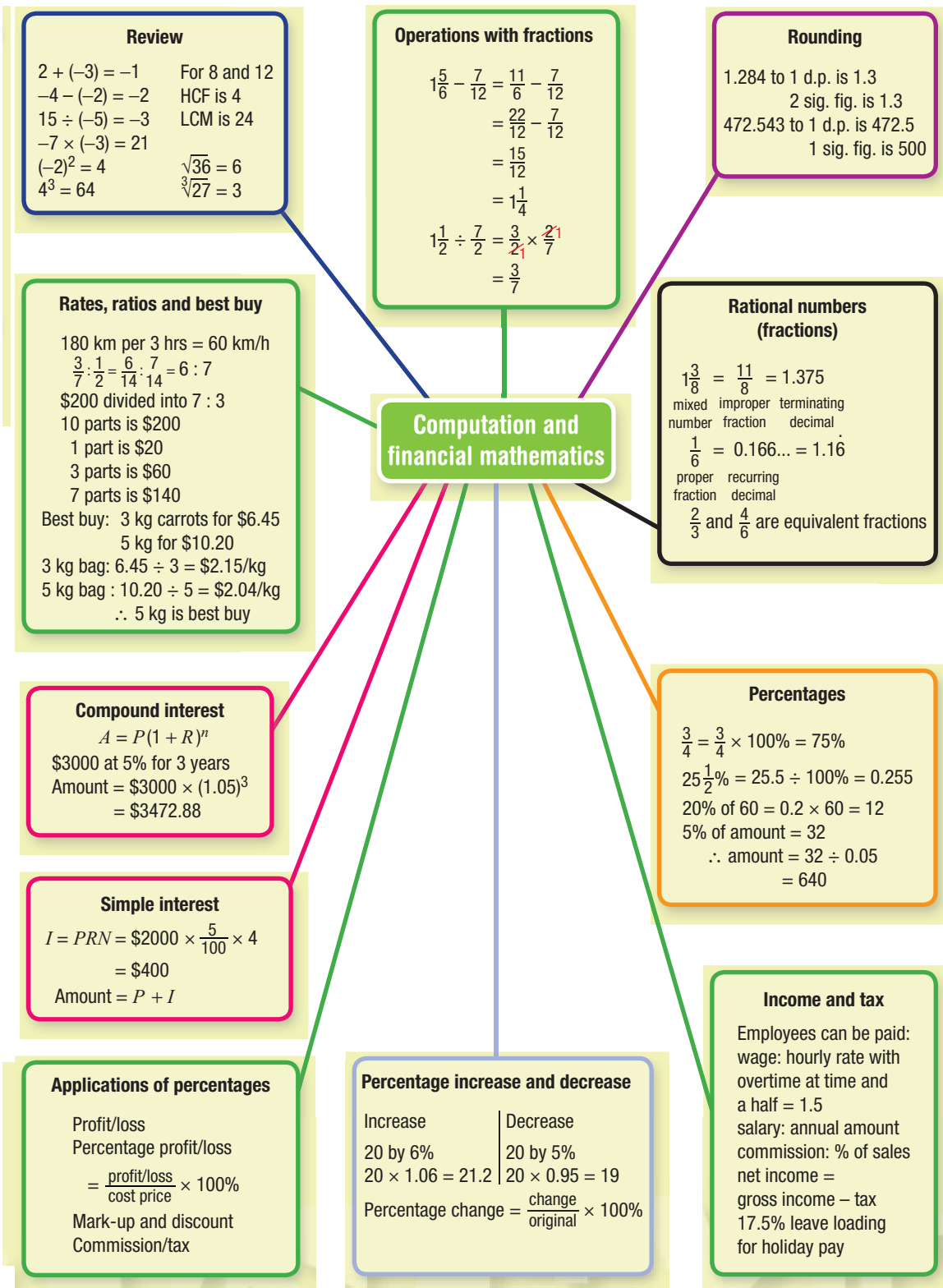
Date	Week 8B Thursday, 18th March 2021																								
Weighting	20% of Year 9 Mathematics Assessment																								
Classes Assessed	<p>This assessment is compulsory for:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>9MATR</td> <td>Mr Smithard</td> <td>Period 3</td> <td>9MATB</td> <td>Ms Pham</td> <td>Period 1</td> </tr> <tr> <td>9MATO</td> <td>Mrs Keir</td> <td>Period 3</td> <td>9MATI</td> <td>Mr Bokat</td> <td>Period 1</td> </tr> <tr> <td>9MATY</td> <td>Mr Chakari</td> <td>Period 3</td> <td>9MATV</td> <td>Mr Smithard</td> <td>Period 1</td> </tr> <tr> <td>9MATG</td> <td>Mr Bokat</td> <td>Period 3</td> <td>9MATP</td> <td>Ms Ibrahim</td> <td>Period 1</td> </tr> </table>	9MATR	Mr Smithard	Period 3	9MATB	Ms Pham	Period 1	9MATO	Mrs Keir	Period 3	9MATI	Mr Bokat	Period 1	9MATY	Mr Chakari	Period 3	9MATV	Mr Smithard	Period 1	9MATG	Mr Bokat	Period 3	9MATP	Ms Ibrahim	Period 1
9MATR	Mr Smithard	Period 3	9MATB	Ms Pham	Period 1																				
9MATO	Mrs Keir	Period 3	9MATI	Mr Bokat	Period 1																				
9MATY	Mr Chakari	Period 3	9MATV	Mr Smithard	Period 1																				
9MATG	Mr Bokat	Period 3	9MATP	Ms Ibrahim	Period 1																				
Examination Details	<p>Read the following details carefully and write them into your diary.</p> <p>Duration: 50 minutes Format: CALCULATOR Venue: Classrooms</p>																								
Equipment Required	<p>The following equipment is required for this assessment task:</p> <ul style="list-style-type: none"> • Blue and/or black pens • Lead Pencils • Approved Calculator • Ruler <p>Note:</p> <ul style="list-style-type: none"> • No borrowing of equipment will be permitted. • A formula sheet (attached) will be provided for this examination. • No handwritten summaries will be permitted. 																								
Marking Criteria	<ul style="list-style-type: none"> • All questions should be attempted. • All questions are worth 1 mark unless otherwise indicated. • To obtain full marks, answers must be completely correct and all necessary working must be shown. • Some marks may be awarded for partially correct answers. • Trivial attempts will be counted as a non-attempt and may result in an official warning letter being issued. 																								
Absentee Procedures	<p>If you are absent on the day of this examination, upon your return to school you must present a Doctor's Certificate to your Class Teacher or the Head Teacher explaining your absence, otherwise a mark of zero may be awarded. You will be required to sit for your examination on the first day you return to school.</p>																								

Examination Paper

The following table lists all the Stage 4 and Stage 5 outcomes, knowledge and numeracy skills that will be assessed in this assessment task.

Strands	Assessment Outcomes
Number and Algebra	<p style="text-align: center;">Topic: Integers, Decimals, Fractions, Ratios and Rates</p> <p>MA4-4NA Compares, orders and calculates with integers, applying a range of strategies to aid computation.</p> <p>MA4-5NA Operates with fractions, decimals and percentages.</p> <p>MA4-7NA Operates with ratios and rates, and explores their graphical representation.</p> <p style="text-align: center;">Topic: Financial Mathematics</p> <p>MA4-6NA Solves financial problems involving purchasing goods</p> <p>MA5.1-4NA Solves financial problems involving earning, spending and investing money.</p> <p>MA5.2-4NA (Stage 5.2 and 5.3 only) Solve financial problems involving compound interest</p>
Working Mathematically 	<p>MA4-1WM Communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols.</p> <p>MA4-2WM Applies appropriate mathematical techniques to solve problems.</p> <p>MA4-3WM Recognises and explains mathematical relationships using reasoning.</p> <p>MA5.1-3WM Provides reasoning to support conclusions that are appropriate to the context.</p> <p>MA5.2-2WM (Stage 5.2 and 5.3 only) Interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems.</p>
Textbook Chapters	<ul style="list-style-type: none"> • Cambridge 9: NSW Gold – Chapters 1 & 2 • Cambridge 9: 5.1 & 5.2 – Chapters 1 & 2 • Cambridge 9: 5.1, 5.2 & 5.3 – Chapter 1

Year 9 Reference Sheet: Computation and Financial Mathematics



Stage 5 Mathematics Grading Scale

The following table lists outcomes and sample performance descriptors that students can typically achieve to be awarded the respective grades outlined.

Year 9	ACHIEVEMENT								
TOPIC & OUTCOME	<i>Limited</i>	<i>Basic</i>		<i>Sound</i>		<i>High</i>		<i>Extensive</i>	
	E2	D3	D4	C5	C6	B7	B8	A9	A10
<p>Computation with Integers, Fractions, Decimals and Percentages</p> <p>MA4-4NA Compares, orders and calculates with integers, applying a range of strategies to aid computation.</p> <p>MA4-5NA Operates with fractions, decimals and percentages.</p>	<p><i>Apply integers to simple problems involving money and temperature.</i></p> <p><i>Add and subtract integers using mental and written strategies.</i></p> <p><i>Multiply and divide integers using mental and written strategies.</i></p> <p><i>Rounds numbers in familiar contexts.</i></p> <p><i>Represent common percentages as fractions and decimals. Calculates percentages with 10% 25% or 50%</i></p>	<p><i>Convert between simple decimals, fractions and percentages and calculate percentages of quantities with digital technologies.</i></p> <p><i>Uses some prefixes. Can round to a given number of decimal places.</i></p> <p><i>Apply the order of operations to mentally evaluate expressions involving integers.</i></p>	<p><i>Identifies significant figures (SF) Uses large and small prefixes.</i></p> <p><i>Express one quantity as a percentage of another.</i></p> <p><i>Increase or decrease a quantity by a given percentage.</i></p> <p><i>Calculate percentages greater than 100%.</i></p> <p><i>Convert between any fraction, decimal or percentage.</i></p>	<p><i>Recognise equivalence when calculating percentage increase or decrease. e.g. $\times 1.05$ = increase of 5%.</i></p> <p><i>Find the percentage increase or decrease of a quantity. Use the unitary method to solve simple problems.</i></p> <p><i>Apply appropriate strategies to solve real-life problems involving percentages.</i></p>	<p><i>Apply appropriate strategies to solve unfamiliar problems involving fractions, decimals and percentages.</i></p> <p><i>Use the unitary method to solve any problem involving fractions, decimals or percentages</i></p>				
<p>Rates and Ratios</p> <p>MA4-7NA Operates with ratios and rates, and explores their graphical representation.</p>	<p><i>Writes ratios. Simplifies simple ratios.</i></p>	<p><i>Simplifies simple rates. Finding simple equivalent ratios.</i></p>	<p><i>Simplifies ratios with fractions, decimals, different units.</i></p>	<p><i>Converts between units for rates.</i></p>	<p><i>Divides a quantity into a given ratio. Solve a variety of real-life problems involving ratios, e.g. scales on maps, mixes for fuels or concrete.</i></p>	<p><i>Use rates to compare quantities measured in different units.</i></p>			

<p>Financial Mathematics</p> <p>MA4-6NA Solves financial problems involving purchasing goods</p> <p>MA5.1-4NA Solves financial problems involving earning, spending and investing money.</p> <p>MA5.2-4NA (Stage 5.2 and 5.3 only) Solve financial problems involving compound interest</p>	<p>Solves simple financial mathematics problems involving earning money.</p>	<p>Solves simple financial mathematics problems involving earning and spending money and, given the formula, calculates simple interest.</p>	<p><i>Uses the given compound interest and depreciation formulas to solve simple problems.</i></p>	<p><i>Solves multi-step financial mathematics problems involving commission and overtime.</i></p> <p><i>Uses the compound interest and depreciation formulas to solve word problems (compounded annually only).</i></p>	<p><i>Solves multi-step problems involving holiday loading, tax tables. Solves for P, r, n in simple interest formula.</i></p> <p><i>Calculate best buys by comparing prices per unit. Apply strategies to calculate percentage discount, profit or loss.</i></p>	<p>Applies the compound interest formula to solve financial mathematics problems, including those involving depreciation.</p> <p><i>Solve complex best buys problems using various techniques and recognises that in practical situations there are considerations other than just the 'best buy'.</i></p>	<p><i>Solves financial mathematics problems using compound interest formula for various compounding periods.</i></p> <p><i>Compares and contrasts applying simple and/or compound interest over various time periods using numerical expressions.</i></p>	<p><i>Solves problems for r and t using the compound interest formula.</i></p>	<p>Compares and contrasts applying simple and/or compound interest over various time periods using generalised expressions.</p>
---	--	--	--	---	---	---	---	--	---