



# Year 7 (2021)



## MATHEMATICS

### Term 4 Exam Notification

<b>Date</b>	<b>Week 2B</b> <b>Thursday 14<sup>th</sup> October 2021 &amp; Friday 15<sup>th</sup> October 2021</b>
<b>Classes Assessed</b>	<p><b>Thursday 14<sup>th</sup> October 2021</b></p> <p>7 MAT P (Ms Ivanovska) Period 3</p> <p><b>Friday 15<sup>th</sup> October 2021</b></p> <p>7 MAT R (Mr Salame) Period 3</p> <p>7 MAT O (Mrs Ibrahim) Period 4</p> <p>7 MAT Y (Ms Ivanovska / Mrs Keir) (Mr Smithard) Period 5</p> <p>7 MAT G (Mr Chakari / Ms Ivanovska) Period 2</p> <p>7 MAT B (Mrs Ibrahim / Mr Fomin) (Mr Bokat / Mr Fomin) Period 2</p> <p>7 MAT I Period 2</p> <p>7 MAT V Period 2</p>
<b>Weighting</b>	25% of Year 7 Mathematics Assessment
<b>Examination Details</b>	<p>Read the following details carefully and write them into your diary.</p> <p><b>Duration:</b> 45 minutes</p> <p><b>Format:</b> NON-CALCULATOR - Zoom, Google Form, pen &amp; paper.</p> <p><b>Venue:</b> Home</p>
<b>Equipment Required</b>	<p>The following is required for this assessment task:</p> <ul style="list-style-type: none"> <li>• Device with Internet access - computer/laptop/tablet/mobile phone</li> <li>• Google Classroom &amp; ZOOM - a link to exam will be posted in your GC.</li> <li>• Device to take photos &amp; transfer to Google Classroom (e.g. mobile phone)</li> <li>• Blank paper, blue/black pen, lead pencil</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• This an open book exam, however, you may <b>ONLY</b> use your maths book or the reference sheet attached during the exam - <b>Calculators are NOT permitted</b></li> <li>• You will asked during the exam to declare that you have not used a calculator or obtained assistance from other sources not permitted.</li> </ul>
<b>Marking Criteria</b>	<ul style="list-style-type: none"> <li>• All questions should be attempted.</li> <li>• All questions are worth 1 mark unless otherwise indicated.</li> <li>• To obtain full marks, answers must be completely correct and all necessary working must be shown.</li> <li>• Some marks may be awarded for partially correct answers.</li> <li>• Trivial attempts will be counted as a non-attempt and may result in an official warning letter being issued.</li> </ul>
<b>Absentee Procedures</b>	If you are unwell or do not have access to the necessary equipment on the day of this examination, you must contact your Class Teacher or the Head Teacher to explain your absence <b>on the day of the exam</b> . You may be required to sit for your examination at another time.

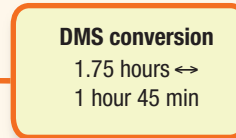
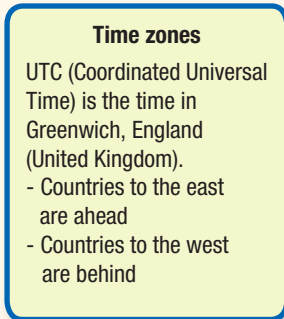
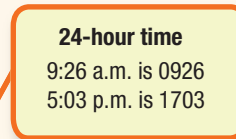
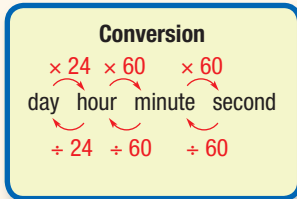
## Year 7 Term 4 Examination - 2021

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

Strands	Assessment Outcomes
<b>Measurement and Geometry</b>	<p><b>Topic: <u>TIME</u></b></p> <ul style="list-style-type: none"><li>• Cambridge 7 – Chapter 7</li><li>• Cambridge Gold NSW 7 – Chapter 7</li></ul> <p><b>MA4-13MG</b> A student performs calculations of time that involve mixed units, and interprets time zones.</p>
<b>Number and Algebra</b>	<p><b>Topic: <u>COMPUTATION WITH FRACTIONS &amp; DECIMALS</u></b></p> <ul style="list-style-type: none"><li>• Cambridge 7 – Chapter 6</li><li>• Cambridge Gold NSW 7 – Chapter 6</li></ul> <p><b>MA3-4NA</b> A student operates with fractions, decimals, percentages</p>
<b>Working Mathematically</b>	<p><b>MA4-1WM</b> A student communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols</p> <p><b>MA4-2WM</b> A student applies appropriate mathematical techniques to solve problems</p> <p><b>MA4-3WM</b> A student recognises and explains mathematical relationships using reasoning</p>

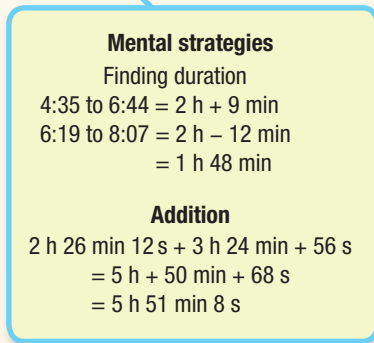
# Year 7 Reference Sheet 1

## Time



**Australian time zones**

State/ Territory	Standard	Daylight saving
WA	+ 8	+ 8
NT	+ 9 $\frac{1}{2}$	+ 9 $\frac{1}{2}$
SA	+ 9 $\frac{1}{2}$	+ 10 $\frac{1}{2}$
Tas.	+ 10	+ 11
Vic.	+ 10	+ 11
NSW	+ 10	+ 11
ACT	+ 10	+ 11
Qld	+ 10	+ 10



# Year 7 Reference Sheet 2

## Computation with Fractions & Decimals

**Adding fractions**  
Need a common denominator.

$$\frac{4}{5} + \frac{2}{3} = \frac{12}{15} + \frac{10}{15}$$
$$= \frac{22}{15}$$

**Multiplying fractions**  
Multiply across the top.  
Multiply across the bottom.  
Cancel when you can.

$$\frac{\cancel{3}}{5} \times \frac{7}{\cancel{3}} = \frac{7}{5}$$

### Computation with fractions

**Subtracting fractions**  
Need a common denominator.

$$\frac{5}{7} - \frac{1}{3} = \frac{15}{21} - \frac{7}{21}$$
$$= \frac{8}{21}$$

**Reciprocal** means to turn a fraction upside down.

e.g.  $3 \rightarrow \frac{1}{3}$

$$\frac{4}{5} \rightarrow \frac{5}{4}$$
$$\frac{4}{3} \rightarrow \frac{3}{4}$$

**Dividing fractions**  
Multiply by its reciprocal.

$$1\frac{2}{5} \div \frac{2}{3} = \frac{7}{5} \times \frac{3}{2}$$
$$= \frac{7 \times 3}{5 \times 2}$$
$$= \frac{21}{10}$$

**Adding decimals**  
Line up decimal points.

$$6.4 + 1.2 = 6.4$$
$$\begin{array}{r} 6.4 \\ + 1.2 \\ \hline 7.8 \end{array}$$

**Multiplying decimals**

$$12 \times 3 = 36$$
$$1.2 \times 0.3 = 0.36$$
$$0.12 \times 0.3 = 0.036$$

Number of decimal places in the question equals number of decimal places in the answer.

### Computation with decimals

**Subtracting decimals**  
Line up decimal points.

$$\begin{array}{r} 1216.94 \\ - 31.53 \\ \hline 1185.41 \end{array}$$

**Dividing decimals**

$$1.5 \div 0.3 = 15 \div 3$$

Multiply both numbers by 10 so that the divisor becomes a whole number.