
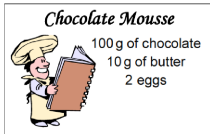




Mr Coles' 8X2 Maths Weekly Task Grid – Week commencing 6th July



Choose 1 purple task, 1 orange task, 2 green tasks (**answers now included**) and 2 yellow tasks from the grid. Complete them this week.

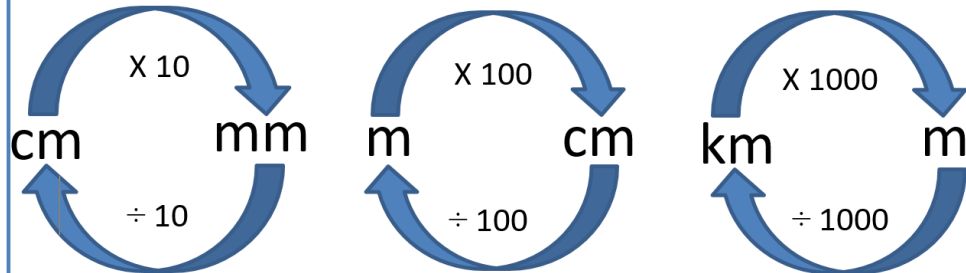
<p>Task 1</p> <p>Make a mind map of any Metric Measures including any Metric Conversions information you feel comfortable with so far, examples of how you do it, any conversions you already know, things like that. Add to it as you go along.</p> <p>See the examples on the next pages</p>	<p>Task 2</p> <p>Metric Conversions has been set on MyMaths. Make sure you do the lesson first.</p> <p>Log on with your individual logins (email me if you can't get on). Work through the exercises then attempt the homework.</p> <p>The videos on Corbett in Task 3 help.</p>	<p>Task 3</p> <p>Metric Units on Corbett Maths. There are three videos but only one set of questions. Do the left column and the right column on each one only, so for Q1 you'd do a, e, i, d, h, l. Have a go at some Apply questions too.</p> <p>Videos: Length and Mass and Capacity</p> <p>Questions on Metric Measures and Answers</p>	<p>Task 4</p> <p>Create a poster/PowerPoint/revision cards on Metric Measures and Converting between them.</p> <p>Website to help:</p> <p>BBC Bitesize – Metric Conversions</p> <p>See the examples on the next pages</p>
<p>Task 5</p> <p>Make a quiz/PowerPoint /Kahoot on questions involving Metric Measures and Conversions</p> <p>Questions can involve anything to do with it. The more unique the better! Good ones will be featured on next week's grid.</p>	<p>Task 6</p> <p>Try one (or both) of the quizzes made for last week's questions by students:</p> <p>Here is one by Jack E. and its about the sort of level I expect you all to be able to do.</p> <div></div> <p>Here is another by McAuley J. which is much harder and will require a piece of paper. No calculators!</p>	<p>Task 7</p> <p>Functional: Chocolate Mousse</p> <p>Here is a recipe for chocolate mousse:</p> <div></div> <p>This makes enough chocolate mousse for two people. I have 8 eggs, 45g of butter and 350g of chocolate. What is the maximum number of people I can make chocolate mousse for?</p> <p>Enlarged on next pages.</p>	<p>Task 8</p> <div><p>If you aren't sure how to do any of these, just email me. I've enlarged the questions on the next page</p><div><ol style="list-style-type: none">1) 17.2×7.92) Share £120 in the ratio 4: 1: 33) Increase 70 by 20%4) $10 - 35 \div 7 + \sqrt{4}$5) £1 = \$1.30. Convert £300 into dollars6) Expand $3x(y - 2)$7) Solve $3x - 5 = 10$8) Factorise $9x + 15$9) What is the LCM of 8 and 1210) $\frac{1}{8} + \frac{5}{12}$</div></div>
<p>Task 9</p> <p>FIVE, that's FIVE (count them) games on this website to do with Metric measures. Play them all once to qualify for having done this task.</p> <p>And tell me which was best.</p> <div></div>	<p>Task 10</p> <p>Watch this video on Metric Measures on YouTube</p> <p>And also...</p> <p>Watch this TED video on Metric Measures.</p> <div></div>	<p>Task 11</p> <p>Problem Solving:</p> <p>Double Trouble</p> <p>Use all the digits</p> <p>0 1 5 0 1 5 0</p> <p>to complete this multiplication:</p> <div><div><div></div><div></div><div></div></div><div>$\times 2 =$</div><div><div></div><div></div><div></div><div></div><div></div></div></div> <p>Enlarged on next pages.</p>	<p>Task 12</p> <p>Go to www.mrcartermaths.com</p> <p>Log on with the following details: U: student@stocksbridgehigh.co.uk P: Prism240</p> <p>Click on <i>secondary</i> > <i>Scroll to Core Skills</i> > <i>Stage 3</i></p> <p>And select Convert between Metric Units (In Measurements).</p> <p>Do as many questions as you like and then check your answers.</p>

Task 1 and 4

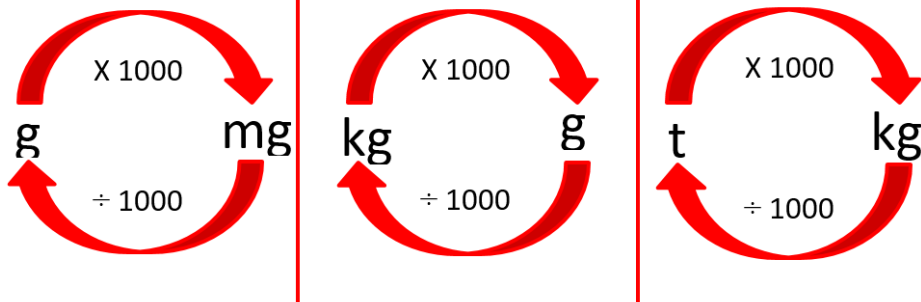
Metric conversions crib sheet

The most important conversions for your exam have a box around them!

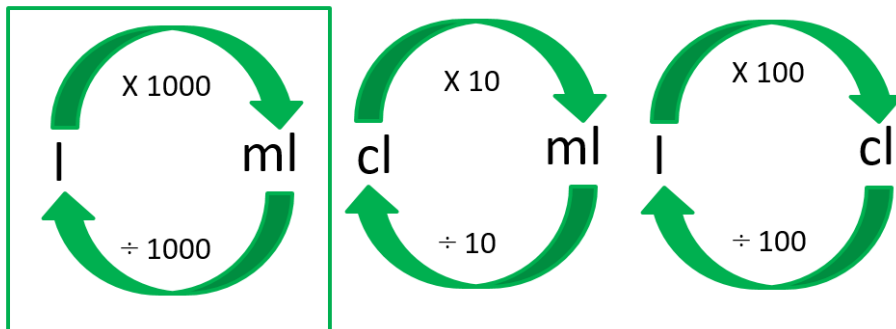
Length:



Mass:



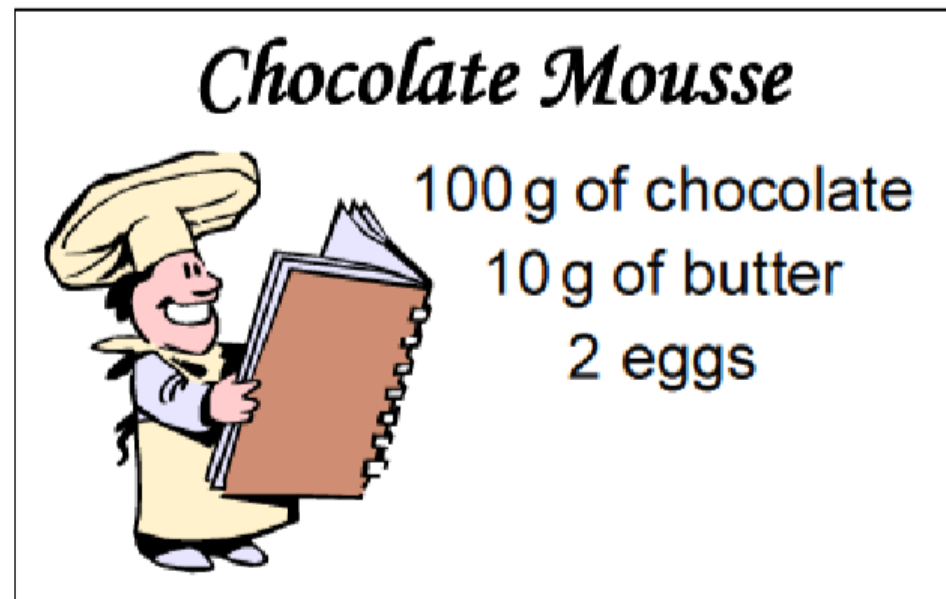
Volume:



Task 7

Functional: **Chocolate Mousse**

Here is a recipe for chocolate mousse:



This makes enough chocolate mousse for two people.

I have 8 eggs, 45 g of butter and 350 g of chocolate.

What is the maximum number of people I can make chocolate mousse for?

Task 8

- 1) 17.2×7.9
- 2) Share £120 in the ratio 4: 1: 3
- 3) Increase 70 by 20%
- 4) $10 - 35 \div 7 + \sqrt{4}$
- 5) £1 = \$1.30.
Convert £300 into dollars
- 6) Expand $3x(y - 2)$
- 7) Solve $3x - 5 = 10$
- 8) Factorise $9x + 15$
- 9) What is the LCM of 8 and 12
- 10) $\frac{1}{8} + \frac{5}{12}$

Task 11

Problem Solving:

Double Trouble

Use all the digits

0 1 5 0 1 5 0

to complete this multiplication:

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 $\times 2 =$

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Task 12: Green Answers (Task 7, 8, 11)

Quick 10 – Recall

- 1) 17.2×7.9 **135.88**
- 2) Share £120 in the ratio 4:1:3
£60 : £15 : £45
- 3) Increase 70 by 20%
84
- 4) $10 - 35 \div 7 + \sqrt{4}$ **7**
- 5) £1 = \$1.30. **\$390**
Convert £300 into dollars
- 6) Expand $3x(y - 2)$ **$3xy - 6x$**
- 7) Solve $3x - 5 = 10$ **$x = 5$**
- 8) Factorise $9x + 15$ **$3(3x + 5)$**
- 9) What is the LCM of 8 and 12
- 10) $\frac{1}{8} + \frac{5}{12} = \frac{52}{96} = \frac{13}{24}$ **24**

Need to know formulae/facts

Prime numbers
between 10 and 20

11, 13, 17, 19

Use of a calculator

Calculate

$$\cos^{-1}\left(\frac{3}{8}\right) = \mathbf{68.0^\circ}$$

Functional:

$$350 \div 100 = 3.5$$

$$45 \div 10 = 4.5$$

$$8 \div 2 = 4$$

$$\begin{aligned} \text{Max} &= 3.5 \times 2 \\ &= 7 \text{ people} \end{aligned}$$

Problem Solving:

Double Trouble

Use all the digits

0 1 5 0 1 5 0

to complete this multiplication:

5	0	5
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 $\times 2 =$

1	0	1	0
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