


10th January	
$4\frac{1}{2} + 2\frac{2}{3}$ $\frac{9}{2} + \frac{8}{3}$ $\frac{27}{6} + \frac{16}{6}$	 Corbettm0ths $\frac{43}{6} = 7\frac{1}{6}$
<p>Solve <math>x^2 + 5x + 6 = 0</math></p> $(x+2)(x+3) = 0$ $x = -2 \text{ or } x = -3$	
<p>A lamp is on sale at £22.05 This is a 10% reduction of the normal price.</p> <p>What was the price of the lamp before the reduction?</p> $£ 24.50$	$90\% = 22.05$ $10\% = 0.245$ $100\% = 24.5$
<p>50g of lead and 20g of tin are mixed to make an alloy.</p> <p>The density of lead is <math>11\text{g/cm}^3</math> - The density of tin is <math>7\text{g/cm}^3</math></p> $D^M V$	<p>Work out the volume of lead used in the alloy.</p> $V = \frac{50}{11} = 4.5454\dots \text{cm}^3$
<p>Work out the volume of tin used in the alloy.</p> $V = \frac{20}{7} = 2.857\dots \text{cm}^3$ <p>Total volume <math>4.5454\dots + 2.857\dots</math></p>	<p>What is the density of the alloy?</p> $D = \frac{M}{V} = \frac{70}{7.40259\dots} =$ $D = 9.456\text{g/cm}^3$