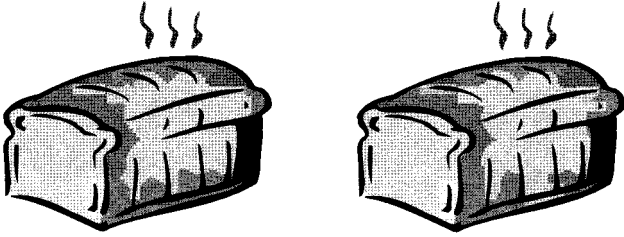
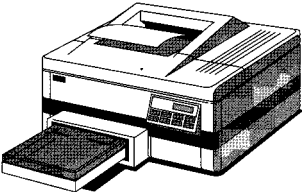
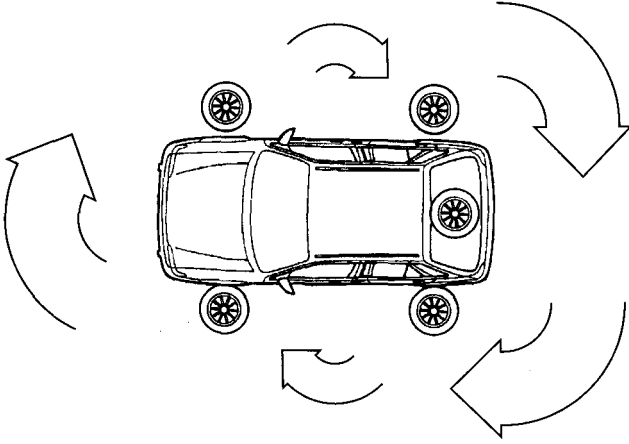


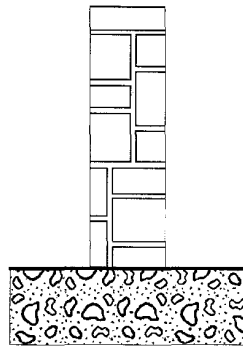
<p>2008 P2 Q3</p>	<div style="text-align: center;">  </div> <p>Ben needs 550 grams of flour to bake two small loaves of bread.</p> <p>(a) How many <b>kilograms</b> of flour will he need for thirteen small loaves?</p> <p>Ben buys his flour in 1.5 kilogram bags.</p> <p>(b) How many bags of flour will he need to bake the thirteen small loaves?</p>	<p>2</p>	<p>1</p>
<p>Ans</p>	<p>(a) 3.575 Kg    (b) 3 bags</p>		
<p>2007 P1 Q10</p>	<p>There are 720 pupils in Laggan High School.</p> <p>The ratio of boys to girls in the school is 5 : 4.</p> <p>How many girls are in the school?</p>	<p>3</p>	<p>3</p>
<p>Ans</p>	<p>320 girls</p>		
<p>2007 P2 Q12</p>	<p>The burning time, <math>t</math> minutes, of a candle varies directly as its height, <math>h</math> millimetres.</p> <p>A candle with a height of 75 millimetres burns for 180 minutes.</p> <p>(a) What is the burning time of a 40 millimetre candle?</p> <p>(b) A candle burns for <math>2\frac{1}{2}</math> hours.</p> <p>What is the height of this candle?</p>	<p>3</p>	<p>3</p>
<p>Ans</p>	<p>(a) 96 minutes    (b) 62.5 cm</p>		
<p>2006 P2 Q2</p>	<p>Carly bought a new printer for her computer.</p> <p>The time taken to print a document is proportional to the number of pages printed.</p> <p>It takes 7 minutes to print a document with 63 pages.</p> <p>How many pages can be printed in half an hour?</p> <div style="text-align: right;">  </div>	<p>3</p>	<p>3</p>
<p>Ans</p>	<p>270 pages</p>		

2005 P2 Q6	<p>The sponsors of the Champions league have given £900 000 to be shared among the four competing teams.</p> <p>The league table is shown below.</p> <p>The teams share the money in the ratio of the <b>points</b> they gain.</p> <p>How much is <b>United's</b> share of the money?</p> <table border="1" data-bbox="252 434 1031 629"> <thead> <tr> <th></th> <th>Played</th> <th>Won</th> <th>Lost</th> <th>Drawn</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td><b>Inter</b></td> <td>3</td> <td>3</td> <td>0</td> <td>0</td> <td><b>9</b></td> </tr> <tr> <td><b>Athletic</b></td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> <td><b>6</b></td> </tr> <tr> <td><b>United</b></td> <td>3</td> <td>1</td> <td>2</td> <td>0</td> <td><b>3</b></td> </tr> <tr> <td><b>Red Star</b></td> <td>3</td> <td>0</td> <td>3</td> <td>0</td> <td><b>0</b></td> </tr> </tbody> </table>		Played	Won	Lost	Drawn	Points	<b>Inter</b>	3	3	0	0	<b>9</b>	<b>Athletic</b>	3	2	1	0	<b>6</b>	<b>United</b>	3	1	2	0	<b>3</b>	<b>Red Star</b>	3	0	3	0	<b>0</b>		4
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Ans	£150000																																
2004 P1 Q9	<p>A recipe for Shortbread uses the following ingredients.</p> <p>300 grams flour 100 grams sugar 200 grams butter</p> <p>Alana has only 240 grams of flour.</p> <p>To make Shortbread using all of the 240 grams of flour she will have to adjust the quantities of sugar and butter.</p> <p>How many grams of sugar and how many grams of butter should she use?</p>		4																														
Ans	80 grams of sugar and 160 grams of butter																																
2003 P2 Q10	<p>The cost, <math>c</math> pounds, of a carpet varies directly as its length, <math>l</math> metres.</p> <p>A carpet of length 5 metres costs £340.</p> <p>(a) What will a carpet of length 8 metres cost?</p> <p>(b) What length is a carpet which costs £238?</p>	3	2																														
Ans	(a) £544 (b) 3.5 m																																

2002 P1 Q10	 <p>A car has five tyres, one on each of the four road wheels and one on the spare wheel.</p> <p>Mr Anderson switched his wheels regularly so that all five tyres were used equally.</p> <p>Last year he travelled 20 000 miles.</p> <p>How many miles did each tyre do on the road?</p>	3
<i>Ans</i>	16000 miles	
2001 P1 Q10	<p>At Dunure Tennis and Golf Club, the ratio of tennis players to golfers is 100:350.</p> <p>(a) Express this ratio in its simplest form.</p> <p>(b) The club has been given £16 200.</p> <p>This money will be divided between the tennis section and the golf section in the same ratio as above.</p> <p>How much money will be allocated to the tennis section?</p>	1  3
<i>Ans</i>	(a) 2:7      (b) £3600	
2001 P2 Q4	<p>A manufacturer has changed its washing powder so that less powder will be needed for each wash.</p> <p>As a result the new 1.5 kilogram box gives the same number of washes as the old 2 kilogram box.</p> <p>A family wash used 96 grams of powder from the old 2 kilogram box.</p> <p>How much powder will be used for a family wash now?</p>	4
<i>Ans</i>	72 grams	

2000 P2 Q10

John is starting to lay concrete foundations for a garden wall.



Concrete is made from stones, sand and cement, to which water is added.

He will mix stones and sand in the ratio 3 to 1.

(a) John needs 1.8 cubic metres of stones for the job.

How much sand will he need?

(b) One bag of sand has a volume of 0.075 cubic metres.

How many bags of sand should he buy for the job?

1

2

Ans

(a) 0.6 cubic metres      (b) 8 bags