

Fractions, Decimals and Percentages Mark Scheme

1(a)	$\frac{7}{25} = \frac{28}{100} = 0.28$, so 0.3 is bigger	[1] Only award if 0.28 or $\frac{30}{100}$ is shown.																					
1(b)	$\frac{2}{3} = 0.\dot{6} \approx 66.7\%$ so $\frac{2}{3}$ is bigger	[1] Only award if $0.\dot{6}$ is shown																					
2(a)	$0.58 = \frac{58}{100}$	[1] Convert to a fraction																					
	$= \frac{29}{50}$	[1] Final answer in simplest form																					
2(b)	$0.256 = \frac{256}{1000}$	[1] Convert to a fraction																					
	$= \frac{32}{125}$	[1] Final answer in simplest form																					
3(a)	$\frac{6}{10} = \frac{60}{100} = 60\%$	[1] Correct percentage																					
3(b)	$\frac{32}{50} = \frac{64}{100} = 64\%$	[1] Correct percentage																					
3(c)	$\frac{3}{5} = \frac{60}{100} = 60\%$	[1] Correct percentage																					
3(d)	$\frac{13}{20} = \frac{65}{100} = 65\%$	[1] Correct percentage																					
4	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Fraction</th><th>Decimal</th><th>Percent</th></tr> </thead> <tbody> <tr> <td>77/100</td><td>0.77</td><td>77%</td></tr> <tr> <td>1/4</td><td>0.25</td><td>25%</td></tr> <tr> <td>3/5</td><td>0.60</td><td>60%</td></tr> <tr> <td>1/3</td><td>$0.\dot{3}$</td><td>$33.\dot{3}\%$</td></tr> <tr> <td>1/10</td><td>0.10</td><td>10%</td></tr> <tr> <td>3/4</td><td>0.75</td><td>75%</td></tr> </tbody> </table>	Fraction	Decimal	Percent	77/100	0.77	77%	1/4	0.25	25%	3/5	0.60	60%	1/3	$0.\dot{3}$	$33.\dot{3}\%$	1/10	0.10	10%	3/4	0.75	75%	[4] 1 mark deducted for each incorrect answer
Fraction	Decimal	Percent																					
77/100	0.77	77%																					
1/4	0.25	25%																					
3/5	0.60	60%																					
1/3	$0.\dot{3}$	$33.\dot{3}\%$																					
1/10	0.10	10%																					
3/4	0.75	75%																					
5(a)	$0.3 + 0.2 + 0.25 = 0.75$, $1 - 0.75 = 0.25$	[1] Add the fraction decimal & percentage																					
	$0.25 \times 32 = 8$ plain cookies	[1] Find remaining number of cookies																					
5(b)	$0.3 \times 60 = 18$ lemon cookies	[1] Find number of lemon cookies																					
6(a)	$\pounds 60 \div 3 = \pounds 20$ $\pounds 60 \times 0.25 = \pounds 15$ 20% of $\pounds 60 = \pounds 12$ Final amount is $\pounds 13$	[1] Correct calculations																					
	Tom receives the most	[1] Conclusion																					
6(b)	Tom = $\pounds 20$, Alice = $\pounds 15$, Susan = $\pounds 13$, John = $\pounds 12$	[1] Correct order																					
7(a)	80%, 75%, 77%, 82%	[1] Comparison of amounts in same form																					
	Hence Sam eats the most at 82%	[1] Correct interpretation																					
7(b)	Total fraction left: $\frac{86}{400}$	[1] Find remaining account left																					
	$\frac{43}{200}$	[1] Cancel to simplest form																					

END