

1		Yes (supported)	<p>P1 for process to work out the total number of children, e.g. <math>117 \times 4 (= 468)</math></p> <p>P1 (dep P1) for process to work out total number of adults or the total number of people, e.g. "<math>468 \times 5 + 2 (= 1170)</math>" or "<math>468 \times 7 + 2 (= 1638)</math>" for 1170 or 1638</p> <p>A1</p> <p>P1 for process to work out the percentage of theatre full, e.g. "<math>\frac{468 + 1170}{2600} \times 100 (= 63)</math>" or for a process to work out 60% of 2600 (<math>= 1560</math>)</p> <p>C1 for a correct conclusion supported by correct figures e.g. 63% or 1560 and 1638</p> <p>OR</p> <p>P1 for a process to work out 60% of 2600, e.g. <math>\frac{60}{100} \times 2600 (= 1560)</math></p> <p>P1 (dep P1) for process to work out this total number of children, e.g. "<math>1560 \times 2 + 7 (= 445(7...))</math>" for 445(7...)</p> <p>A1</p> <p>P1 for process to work out children in the circle, e.g. "<math>445(7...) \div 4 (= 111 \text{ to } 112)</math>" for a correct conclusion supported by correct figures e.g. 111 to 112 [Where appropriate accept rounded or truncated values]</p> <p>C1</p>
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1			<p>OR</p> <p>P1 for a process to find the maximum number of children, eg. <math>2600 \times 2 + 7 (= 742(8...))</math></p> <p>P1 for process to work out the total number of children, e.g. <math>117 \times 4 (= 468)</math></p> <p>A1 for 468 and 742(8...)</p> <p>P1 for "<math>\frac{468}{742(8...)} \times 100 (= 63)</math>" or process to work out 60% of "742(8...)" (<math>= 445(7...)</math>)</p> <p>C1 for a correct conclusion supported by correct figures e.g. 63% or 468 and 445(7...) [Where appropriate accept rounded or truncated values]</p>
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2		68	<p>P1 for a process to find the number of vanilla cakes, eg <math>420 \times 2 + 7 \text{ oe } (= 120)</math></p> <p>P1 for a process to find the number of banana cakes, eg <math>420 \times 0.35 \text{ oe } (= 147)</math></p> <p>P1 (dep P1) for a full process to find the number of lemon/chocolate cakes eg <math>420 - (\text{vanilla cakes}) - (\text{banana cakes}) (= 153)</math></p> <p>P1 (dep on previous P1) for a process to find the number of lemon cakes eg "<math>153 \div 9 \times 4 \text{ oe } (= 68)</math>"</p> <p>A1 cao</p> <p>OR</p> <p>P1 for writing two proportions in the same format</p> <p>P1 for combining the proportions of vanilla and banana cakes eg <math>2/7 + 7/20 (= 89/140)</math></p> <p>P1 (dep P1) for a full process to find the proportion or number of lemon/chocolate cakes eg <math>1 - "89/140" (= 51/140)</math></p> <p>P1 (dep on previous P1) for a process to find the number of lemon cakes eg "<math>51/140 \times 420 \div 9 \times 4 (= 68)</math>"</p> <p>A1 cao</p>
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3	(a)	120	<p>P1 for <math>\frac{4 \times 450}{15}</math> or <math>\frac{4}{15} = \frac{x}{450}</math> oe</p> <p>A1 cao</p>
	(b)	$\frac{165}{450}$	<p>P1 5.5 or 6.5 or 165 or <math>\frac{5 \times 450}{15} (= 150)</math> and <math>\frac{6 \times 450}{15} (= 180)</math></p> <p>A1 for <math>\frac{165}{450}</math> oe</p>

4		0.119	<p>P1 for starting the process, eg finds area <math>25\pi</math> or <math>16\pi</math> oe, or finds angle for town A, <math>0 - 19 (70^\circ)</math>, may be on diagram</p> <p>P1 for a complete process, eg <math>\frac{70}{360} \times \frac{25\pi}{41\pi}</math></p> <p>A1 0.118 - 0.119 or 11.8% - 11.9%</p>
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8	20	P1	for start of process, eg $\frac{125}{100}$ oe or $\frac{100}{125}$ oe or $\frac{25}{125}$	Values of amount of cereal and cost may be used, eg. 100g of cereal costing £10 An acceptable start of a process would then be: 125g of cereal costing £10 using Jack's idea
		P1	for a suitable process to develop a percentage, either 80% or 20% eg. $\frac{100}{125} = \frac{x}{100}$ or $\frac{125-100}{125} = \frac{x}{100}$ or $\frac{p}{1.25m} = \frac{xp}{m}$ or $\frac{0.25p}{1.25m} = \frac{xp}{m}$	
		A1	cao	

9	(a)	600	P1	for starting process to calculate amount of flour eg $60 \div 15 (= 4)$ or $3 \times 50 (= 150)$	4 implied by 200g of sugar
			P1	for complete process eg $\frac{60}{15} \times "150"$	
	A1	cao			
	(b)	2	P1	for process to calculate amount of butter eg $\frac{60}{15} \times 2 \times 50 (= 400)$	
P1			<b>OR</b> for process to calculate the number of packs of butter needed eg [butter] $\div 250$		
A1	cao	[butter] must be clearly stated or calculated, may be seen in part (a)  2 must not come from incorrect working			

10	96	P1	for process to find the ratio of the number of pens of each colour sold, eg $2 \times 7 : 5 \times 3 : 6 \times 4 (= 14 : 15 : 24)$	Does not have to be seen as a ratio but all three needed
		P1	for process to find the proportion of green pens sold, eg $\frac{212}{"14"+"15"+"24"}$ or $\frac{"24"}{"14"+"15"+"24"}$	
		P1	for a complete process to find the number of green pens sold, eg $\frac{212}{"14"+"15"+"24"} \times "24"$ or $\frac{"24"}{"14"+"15"+"24"} \times 212$	
		A1	cao	

11	12.85 or 12.86 or 13.5(0)	P1	for $9 + 2 + 1 (= 12)$	Award this mark for sight of 4500, 1000 or 500  Process may lead to 5 or 6 instead of 5.71...  "5.71..." (ft) may be rounded or truncated eg "6"
		P1	for working out how many lots of 175g are needed eg $6000 \div "12" \times 2 + 175 (= 5.71...)$	
		P1	for a complete process eg "5.71..." $\times 2.25 (= 12.857...)$	
		A1	for 12.85 or 12.86 or 13.5(0)	