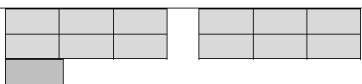
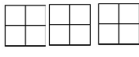




1	(a)		40	1	B1
	(b)	e.g. 9×4 or $68 - 32$ oe		2	M1 May be seen by side of pictogram.
	(c)		36 2 rectangles of 6 sections and 1 small section	1	A1 B1 oe
Total 4 marks					

2	(a)		100	1	B1
	(b)		$1\frac{3}{4}$ pictures	1	B1
	(c)	$2\frac{1}{2} + 3\frac{1}{4} + 5 + 4\frac{1}{4} + 1\frac{3}{4} (=16\frac{3}{4})$ oe or $2\frac{1}{2} \times 20 + 3\frac{1}{4} \times 20 + 5 \times 20 + 4\frac{1}{4} \times 20 + 35 (=335)$ or $50 + 65 + 100 + 85 + 35 (=335)$		3	M1 ft from (b) for adding up the number of squares or finding the total number of books – allow one error or omission
		$500 - '16\frac{3}{4}' \times 20$ oe or $500 - '335'$			M1 ft
			165		A1
Total 5 marks					



3		eg $20 \div 2.5 (=8)$ or $32 \div 4 (=8)$ or $20 \div 10 (=2)$ or $32 \div 16 (=2)$			M1 for a method to find a key
			8		A1 key completed correctly
		eg $24 \div [\text{their } 8]$ or $14 \div [\text{their } 8]$ or $24 \div [\text{their } 2]$ or $14 \div [\text{their } 2]$			M1 complete method to find the picture for Miss Okoye or Dr Syed
		Miss Okoye  Dr Syed 		4	A1
Total 4 marks					

4	(a)		12	1	B1
	(b)	'12' $\times 2.5$	30	1	B1ft Ft their 12
	(c)	One and a quarter rectangles	One and a quarter rectangles drawn oe	1	B1 ft their 12
	(d)	$36 \times 5000 (=180\,000)$ or $200\,000 \div 5000 (=40)$		2	M1
			No and 180 000		A1 for no oe and 180 000 or no oe and 40 or no oe and 20 000 short or 20 000 and short/off
Total 5 marks					

5		[small square =] 2 or [large square =] 8		4	B1 may be seen in a square on the pictogram or in working or implied by correct working
		eg $16 \times "2" (=32)$ or $4 \times "8" (=32)$ or $6 \times "2" (=12)$ or $1.5 \times "8" (=12)$ or $3 \times "2" (=6)$ or $0.75 \times "8" (=6)$ or $13 \times "2" (=26)$ or $3.25 \times "8" (=26)$ or for showing a method of adding the number of large squares (eg $2.5 + 4 + 1.5 + 0.75 + 3.25$)(=12) (at least 3 correct – may omit Monday) or for showing a method of adding the number of small squares ($10 + 16 + 6 + 3 + 13$)(=48) (at least 3 correct – may omit Monday)			M1 for method to work out number of parcels for Tuesday or Wednesday or Thursday or Friday (may be written by the side of the pictogram). Allow use of their 2 or 8 or for a method to count the number of large squares or the number of small squares
		eg $20 + "32" + "12" + "6" + "26"$ or " $12" \times "8"$ oe eg " $9.5" \times "8" + 20$ or " $48" \times "2"$ oe eg " $38" \times "2" + 20$			M1 for a complete method to find the total number of parcels – a sum of 5 numbers with at least 3 correct. Allow use of their 2 or 8 or multiplying number of large squares by 8 or multiplying number of small squares by 2. Allow use of their 2 or 8
		Working not required, so correct answer scores full marks (unless from obvious incorrect working)	96		A1 cao
Total 4 marks					

6	(a)		Wednesday	1	B1
	(b)	4 : 2.5 or 16 : 10 oe		2	M1
			8 : 5		A1 M1 A0 for 5 : 8
	(c)		3.5 “envelopes”	1	B1 Accept  for half an envelope
	(d)	$\frac{6}{14}$		2	M1
		$\frac{3}{7}$		A1	
(e)	eg Heights of bars (cms): 7, 5.5, 3 or heights of 3.5, 2.75, 1.5 cms	bars at correct heights and correct scale		2	B2 B2 for all bars at correct heights with a correct scale (at least one value, not contradicted. 0 implied) If not B2 then B1 for 1 error on heights or no scale, but with heights in correct proportion eg 7, 5.5, 3 cms
Total 8 marks					


7	(a)		18	1	B1
	(b)(i)	eg 66 – 15 – 9 – 3 – “18” or 66 – (7.5 × “6”) or 66 – 45		2	M1ft fit their 18 from part (a)
			21		A1ft fit their 18 from part (a) eg 66 – 15 – 9 – 3 – their answer to part (a)
(ii)		$3\frac{1}{2}$ diagrams drawn	1	B1ft follow through their 21 from (b)(i)	
Total 4 marks					

8	(a)		14	1	B1
	(b)		Cruise  Skiing 	2	B1 correct symbol for Cruise B1 correct symbols for Skiing
	(c)			2	M1 $\frac{7}{a}$ where $a \geq 7$ or $\frac{b}{40}$ where $b \leq 40$
			$\frac{7}{40}$		A1 oe
Total 5 marks					

9	(a)		20	1	B1
	(b)	32, “20”, 18, 22		2	M1ft for at least 3 correct values or clear use of multiples of 8
			92		A1ft 72 + “answer to (a)”
(c)		3 and $\frac{1}{4}$ symbols	1	B1	
Total 4 marks					

10	(a)		USA	1	B1
	(b)		Pictogram completed with 1 and a half symbols	1	B1
	(c)	11 + 7 oe eg (2.75 + 1.75) × 4		2	M1 For two numbers added together, one of which is correct
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	18		A1
Total 4 marks					

11	eg $(8 + 8) + (8 + 4) + (8 + 8 + 6) + (8 + 8 + 2) (= 68)$ or $16 + 12 + 22 + 18 (= 68)$ or $8.5 \times 8 (= 68)$	4	M2 for a method to find the total cars sold in April with at least 3 out of 4 correct and intention to add or sight of 68 (M1 for a method to find the totals for each employee with at least 3 out of 4 correct OR method to find the totals for 2 employees and intention to add)
	eg $60 \times 0.15 (= 9)$ oe or $60 \times 1.15 (= 69)$ oe		M1 (indep) for a method to increase 60 by 15% or 15% of 60 or sight of 69 or 9 Allow $\frac{68}{1.15} (= 59.1\dots)$
	<i>Working required</i>	68 and 69 or 68 and 1 more needed	A1 Suitable conclusion e.g 59.1 v 60
			Total 4 marks

12	(a)	28	1	B1
	(b)		1	B1 (quarter circle can be any quadrant)
	(c)		2	M1 fit their (a) and their (b) from diag 3 correct figures out of 5 seen (no need to add) allow figures doubled; 3 out of 5 seen (figures may be seen in or by table)
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	180		A1 cao SCB1 if no other marks awarded for 360 or 90
				Total 4 marks