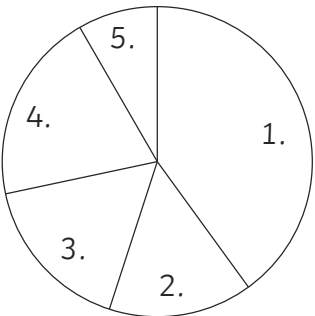
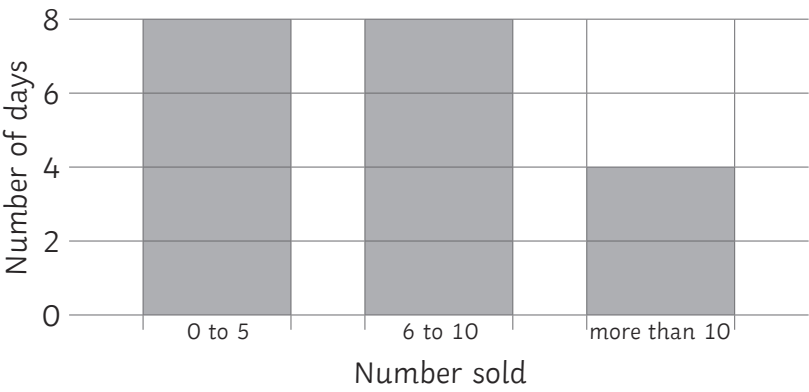


KS3 Practice Paper

Mathematics Foundation Calculator **Answers**

1.		3 marks total
a.	$22d$ $+ 35$	1 mark 1 mark
b.	£343	1 mark
2.		4 marks total
a.	$6(a + 4)$	1 mark
b.	$36b - 60$	1 mark
c.	$21a - 8b$	2 marks or 1 mark for 1 correct term.
3.		2 marks total
a.	2, 5, 13	1 mark
b.	Any example showing 2 square numbers adding to a number which is not square, for example $49 + 9 = 58$	1 mark
4.		4 marks total
a.	0.23×500 or $\frac{23}{100} \times 500$ or $10\% = 50$ and $1\% = 5$ 115	1 mark or 2 marks
b.	$100 + 12$ or 112 or 1.12 or $12\% = 44.4$ 414.4	1 mark or 2 marks
5.		2 marks total
	$30 \div 10$ or scale factor 3 18cm	1 mark or 2 marks
6.		4 marks total
a.	$\sqrt{\frac{90}{\pi}}$ 5.4cm	1 mark or 2 marks
b.	$12.5 \times \pi$ or 39.26990817 39.27cm	1 mark or 2 marks



7.		3 marks total										
	$65 + 70 + 50 + 55 + 62 + 68 + 69 + 72$ or 511 $511 \div 8$ or 63.875 64g	1 mark or 2 marks or 3 marks										
8.		3 marks total										
	$73.5 \div 7 = 10.5$ 10.5×2 or 21 9cm or 73.5×2 or 147 $147 \div 7$ or 21 9cm	1 mark or 2 marks or 3 marks 1 mark or 2 marks or 3 marks										
9.		6 marks total										
a.	$360 \div 36$ or 10 $140 \div 10 = 14$ people	1 mark or 2 marks										
b.	10 people	1 mark										
c.	 <table style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr> <td>1. Football</td> <td>144°</td> </tr> <tr> <td>2. Cricket</td> <td>54°</td> </tr> <tr> <td>3. Basketball</td> <td>60°</td> </tr> <tr> <td>4. Netball</td> <td>72°</td> </tr> <tr> <td>5. Other</td> <td>30°</td> </tr> </table>	1. Football	144°	2. Cricket	54°	3. Basketball	60°	4. Netball	72°	5. Other	30°	3 marks for all angles drawn correctly $\pm 3^\circ$. 2 marks for 3 angles drawn correctly $\pm 3^\circ$. 1 mark for correct angles seen written.
1. Football	144°											
2. Cricket	54°											
3. Basketball	60°											
4. Netball	72°											
5. Other	30°											
10.		3 marks total										
a.		1 mark										
b.	27 days	1 mark										
c.	The final bar covers a much larger range than the other three.	1 mark										



11.		3 marks total
a.	19.2	1 mark
b.	7.2 ÷ 4 or - 2 seen or implied. -0.2 or $-\frac{1}{5}$	1 mark or 2 marks
12.		2 marks total
	Converting minutes into hours or calculating miles per minute. 48mph	1 mark or 2 marks
13.		3 marks total
	$3x + 11 = 5x + 3$ $8 = 2x$ or $x = 4$ 23 counters	1 mark or 2 marks or 3 marks
14.		5 marks total
a.		2 marks or 1 mark for correct centre of rotation or for 90-degree rotation with any centre or direction.
b.	11 squares 11cm ²	2 marks or 3 marks Award 1 mark for indication of counting squares or a clear attempt to find the area of a part of the shape.



15.		5 marks total
a.	evidence of subtracting from 360° 85°	1 mark or 2 marks
b.	$10y$ or $4y + 4y + 2y = 180$ or $10y = 180$ $180 \div 10$ $y = 18^\circ$	1 mark or 2 marks or 3 marks
16.		6 marks total
a.	$5 + 9 + 10$ or 24 $12 \div 24$ or 0.5 or 50p They receive £2.50, £4.50 and £5	1 mark or 2 marks or 3 marks
b.	6:10:11 or 27 $9 \div 6$ or 1.5 £40.50	1 mark or 2 marks or 3 marks
17.		2 marks total
	60 9.15am	1 mark or 2 marks
Total		60 marks

