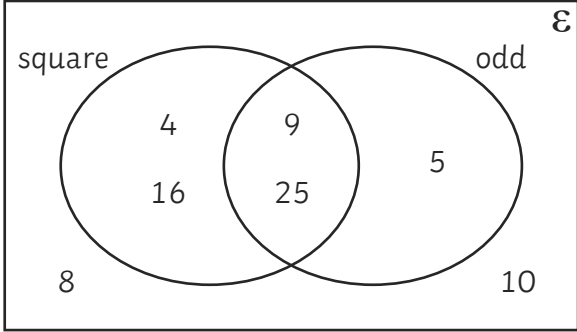
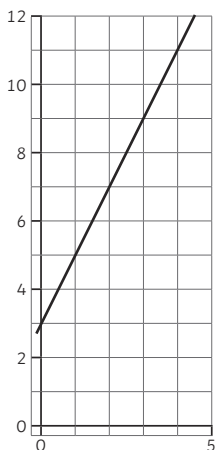


KS3 Practice Paper

Mathematics Foundation Non-Calculator **Answers**

1.		2 marks total					
a.	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>2</td></tr></table> × <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>6</td></tr></table> = <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>7</td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>2</td></tr></table>	1	2	6	7	2	1 mark
1							
2							
6							
7							
2							
b.	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>1</td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>4</td></tr></table> × <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>6</td></tr></table> = <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>8</td></tr></table> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>4</td></tr></table>	1	4	6	8	4	1 mark
1							
4							
6							
8							
4							
2.		2 marks total					
a.	9	1 mark					
b.	820	1 mark					
3.		3 marks total					
a.		<p>1 mark for 8 and 10 placed correctly.</p> <p>1 mark for placing odd numbers correctly.</p> <p>1 mark for placing square numbers correctly.</p>					
4.		6 marks total					
a.	$85 \div 5$ or 17 $17 \times 4 = 68$	<p>1 mark</p> <p>or 2 marks</p>					
b.	$\frac{3 \times 14}{7 \times 27}$ or $\frac{42}{189}$ $\frac{2}{9}$	<p>1 mark</p> <p>or 2 marks</p>					
c.	$\frac{4}{5} \times \frac{35}{32}$ or $\frac{140}{160}$ $\frac{7}{8}$	<p>1 mark</p> <p>or 2 marks</p>					
5.		2 marks total					
a.	5.3×10^6	1 mark					
b.	3×10^3	1 mark					
6.		2 marks total					
a.	$24 \div 8 = 3$	1 mark					
b.	£4.20	1 mark					



7.		2 marks total												
	$\frac{30 \times 300}{10}$ 900	1 mark or 2 marks												
8.		2 marks total												
	$8x = 48$ $x = 6$	1 mark or 2 marks												
9.		4 marks total												
a.	$12a + 48$	1 mark												
b.	$6(2b - 3)$	1 mark												
c.	$3c + 21 + 12c - 12$ $15c + 9$	1 mark or 2 marks												
10.		4 marks total												
a.	<table border="1"> <tbody> <tr> <td>x</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>$y = 2x + 3$</td> <td>3</td> <td>5</td> <td>7</td> <td>9</td> <td>11</td> </tr> </tbody> </table>	x	0	1	2	3	4	$y = 2x + 3$	3	5	7	9	11	2 marks or 1 mark for 3 correct y-values.
x	0	1	2	3	4									
$y = 2x + 3$	3	5	7	9	11									
b.		2 marks 1 mark for correct gradient or intercept. or 2 marks for straight line drawn correctly from their coordinates.												
11.		3 marks												
	$6 \times 7 = \text{£}42$ or $3 \times 2.50 = \text{£}7.50$ $42 + 7.50$ or $\text{£}49.50$ Alice will need to pay for shipping.	1 mark or 2 marks 1 mark Note: workings must be shown to be awarded full marks. Judgement without working scores 0 marks.												



12.		2 marks total
	$r + 5 = 7p$ $p = \frac{r+5}{7}$	1 mark or 2 marks
13.		4 marks total
a.	6, 10, 14, 18, 22	2 marks or 1 mark for 3 correct terms.
b.	$4n$ or 2 or -2 $4n - 2$	1 mark or 2 marks
14.		2 marks total
a.	20×3 or 6×3 or $(6 \div 20) \times 60$ 18km/h	1 mark or 2 marks
15.		3 marks total
a.		2 marks Or 1 mark for correct enlargement in incorrect position.
b.		1 mark
16.		4 marks total
a.	0	1 mark
b.	$P(\text{not blue}) = 1$ or 100%	1 mark
c.	Listing the 12 outcomes $\frac{1}{12}$	1 mark 1 mark



17.		3 marks total										
a.	36cm^2	1 mark										
b.	16.5×2 or $16.5 \div 6$ or 33 or 2.75 5.5cm	1 mark or 2 marks										
18.		2 marks total										
	<table border="1"> <tr> <td>Self-Raising Flour</td> <td>780g</td> </tr> <tr> <td>Butter</td> <td>480g</td> </tr> <tr> <td>Sugar</td> <td>450g</td> </tr> <tr> <td>Mixed Fruit</td> <td>900g</td> </tr> <tr> <td>Egg</td> <td>6</td> </tr> </table>	Self-Raising Flour	780g	Butter	480g	Sugar	450g	Mixed Fruit	900g	Egg	6	2 marks or 1 mark for 3 correct values.
Self-Raising Flour	780g											
Butter	480g											
Sugar	450g											
Mixed Fruit	900g											
Egg	6											
19.		4 marks total										
	$50 \div 10$ or 5 and 0.5 seen 6	1 mark or 2 marks										
	$90 \div 10$ or 9 seen 54	1 mark or 2 marks										
20.		4 marks total										
	$15 - 10 = 5$ $\frac{1}{2} \times 9 \times 5 = 22.5$ $\frac{1}{2} \times 9 \times 15 = 67.5$ $67.5 - 22.5 = 45\text{cm}^2$ or $9 \div 2 = 4.5$ 4.5×10 and $\div 2$ seen or implied 22.5 45cm^2	1 mark or 2 marks 1 mark or 4 marks or 1 mark or 2 marks or 3 marks or 4 marks										
Total		60 marks										

