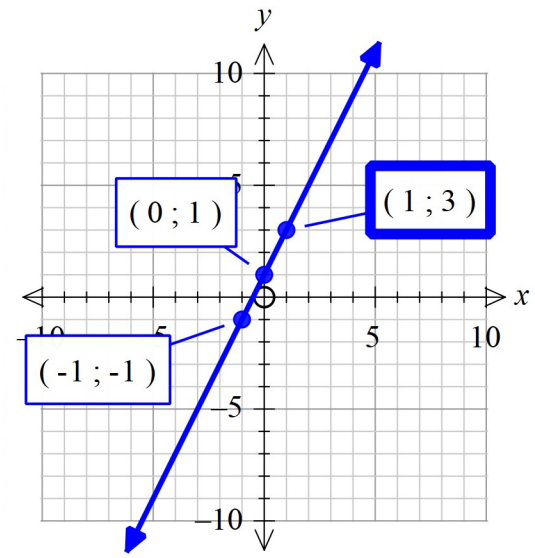
<table>
<tr><th>Question</th><th>Answer</th><th>Mark allocation</th><th>Marks</th></tr>
<tr><td>1.1</td><td>
<table>
<tr><th>Description</th><th>Number</th><th>Mark allocation</th></tr>
<tr><td>Rational numbers</td><td>-4; 7; $\sqrt{16}$; $\frac{-2}{5}$; $\frac{22}{7}$; 2.5</td><td>✓ correct answers only</td></tr>
<tr><td>Positive whole numbers</td><td>7; $\sqrt{16}$</td><td>✓ correct answers only</td></tr>
<tr><td>Factors of 48</td><td>$\sqrt{16}$; or -4</td><td>✓ correct answers only</td></tr>
<tr><td>Equivalent to $\frac{-14}{35}$</td><td>$-\frac{2}{5}$</td><td>✓ correct answers only</td></tr>
<tr><td>Approximations of each other</td><td>-0.3333 and -0.33 or $\frac{22}{7}$ and π</td><td>✓ correct answers only</td></tr>
</table>
</td><td></td><td>5</td></tr>
<tr><td>1.2.1</td><td>Straight-line</td><td>✓ ans</td><td>1</td></tr>
<tr><td>1.2.2</td><td>x – axis; y – axis</td><td>✓ans</td><td>1</td></tr>
<tr><td>1.2.3</td><td>multiply</td><td>✓ ans</td><td>1</td></tr>
<tr><td>1.2.4</td><td>Constant
terms</td><td>✓ ans
✓ans</td><td>2</td></tr>
<tr><td></td><td></td><td></td><td>[10]</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td>2.1</td><td>$\frac{25}{12}$ ✓

$\frac{18}{3} \times \frac{12}{25}$ ✓</td><td>✓ fraction
✓ tip n times</td><td>2</td></tr>
<tr><td>2.2</td><td>$5 - 2\,[2 \times 27 + 4(2 - 8$✓$)]$
$= 5 - 2[54$ ✓ $+ 4(-6)]$
$= 5 - 2[30]$ ✓
$= -55$ ✓</td><td>$\sqrt{64} = 8$ ✓
$3^3 = 27$
$2 \times 27 = 54$ ✓
$4(-6) = -24$
$54 - 24 = 30$ ✓
✓ ans</td><td>4</td></tr>
<tr><td></td><td></td><td></td><td>[6]</td></tr>
</table>

Question	Answer	Mark allocation	Marks
3.1	$5x^2y$ ✓ + $15xy$ ✓	✓ $5x^2y$ ✓$15xy$	2
3.2	$5x - 2x^2 - 6x$ ✓+ $6x$ $= 5x - 2x^2$ ✓	✓ bracket expansion ✓ ans	2
3.3	12 ✓ x^6 ✓ y^{10} ✓	✓ 12 ✓ x^6 ✓ y^{10}	3
			[7]
4.1	$x = \frac{24}{5}$ ✓	✓ numerator ✓ denominator	2
4.2	$-7x + 11x = 22 + 14$ ✓✓ $4x = 36$ $x = 9$ ✓	✓ LHS ✓ RHS ✓ ans	3
4.3	$x^3 = \frac{125}{4} \div 2 = \frac{125}{4} \times \frac{1}{2}$ $x^3 = \frac{125}{8}$ $x = \frac{5}{2}$	✓ divide by 2 ✓ $x^3 = \frac{125}{8}$ ✓ ans	3
4.4	7x = 5x + 14 ✓ x = 7 ✓ 7x + 5x = 12x = 12(7) = 90 sweets ✓	✓ setting up equation ✓ x = 70 ✓ ans	3
			[11]
5.1.1	$\frac{3}{7}$ ✓	✓ ans	1
5.1.2	Number of players passing = $\frac{7}{10}$ ✓ $210 \times \frac{7}{10} = 147$ ✓ 147 × 4,5 × 5 ✓ = 3307,5 Robux ✓	✓ $\frac{7}{10}$ ✓ 147 ✓ 147 × 4,5 × 5 ✓ ans	4
5.2	20% of 66 million = 13,2 million or 13 200 000 ✓	✓ ans	1
5.3	36% of 13,2 = 4,75 million ✓✓ Or 4 752 000.	✓CA 36% of prev answer ✓ ans	2
5.4	$T_n = 6n - 1$ ✓ $1000 = 6n - 1$ ✓ ∴ n = 166,833… ∴ 166 items. ✓	✓ finding rule ✓ = 1000 ✓ rounding down to 166	3
			[11]

Question	Answer	Mark allocation	Marks
6.1	a = +5 ✓ b = 6 ✓ c = $\frac{p}{3} + 5$ ✓	✓ a ans ✓ b ans CA ✓ c ans CA	3
6.2.1	<table><tr><td>x</td><td>−1</td><td>0</td><td>1</td></tr><tr><td>y</td><td>−1</td><td>1</td><td>3</td></tr></table>	✓✓✓ for x-values −1; 0; 1	3
6.2.2	(−1; −1) ✓ (0; 1) ✓ (1; 3) ✓	✓✓✓ CA	3
6.2.3		✓ straight line through points ✓ correct points CA −1 for not using a ruler	2
6.3.1	20; 27; 35	✓ 3 correct ans	1
6.3.2	230 ✓	✓✓ any valid method (trial and error) ✓ ans 230	3
			[14]