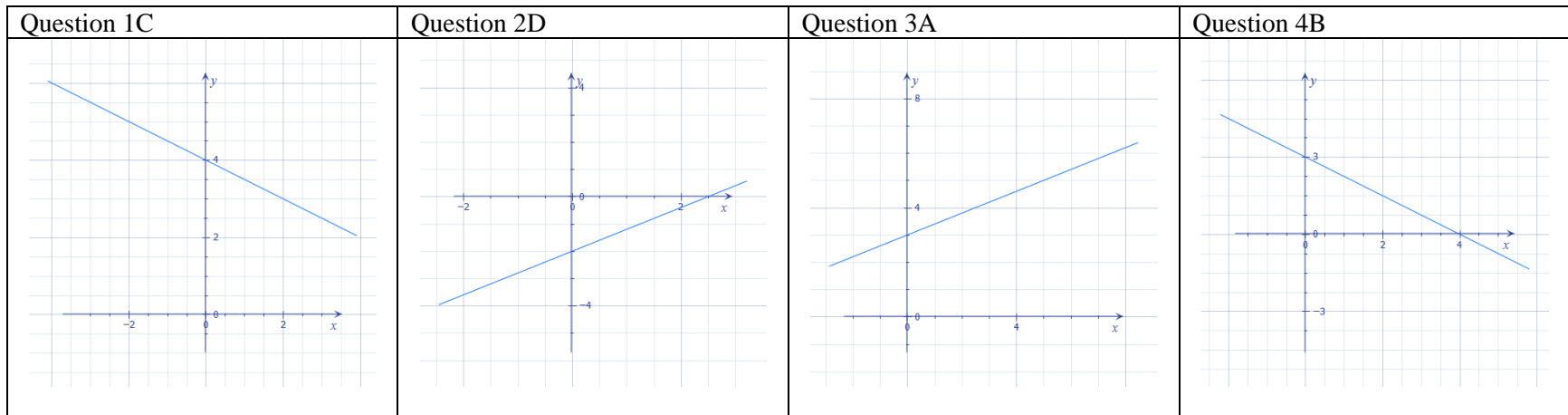


| | Question 1 | Question 2 | Question 3 | Question 4 |
|---|--|---|---|--|
| A | $y = \frac{1}{2}x + 3$ | Lines 3 and 4 | $y = \frac{2}{5}x + 3$ See graph below | $y = -2x - 5$ |
| B | $y = -2x - 5$ | $y = -\frac{1}{3}x - 2$ | Lines 1 and 2 | $y = -\frac{3}{4}x + 3$ See graph below |
| C | $y = -\frac{1}{2}x + 4$ See graph below | $y = 3x + 2$ | $y = -4x - \frac{7}{2}$ | Lines 1 and 4 |
| D | Lines 2 and 3 | $y = \frac{4}{5}x - 2$ See graph below | $y = 2x + 4$ | $y = -x + 2$ |



| | Question 5 | Question 6 | Question 7 | Question 8 |
|---|--|---|--|--|
| A | <u>Given:</u> $m = 0.75, b = \$3$ <u>Equation:</u> $y = 0.75x + 3$ 16 miles | <u>Given:</u> rate of $x = \$2$, rate of $y = \$1.50$ <u>Equation:</u> $2x + 1.5y = 30$ 9 pounds | <u>Given:</u> $(1, 3.5), (4, 8)$ <u>Equations:</u> $y - 8 = 1.5(x - 4)$ or $y - 3.5 = 1.5(x - 1)$ \$18.50 | <u>Given:</u> $m = 40, (6, 275)$ <u>Equation:</u> $y - 275 = 40(x - 6)$ \$35 |
| B | <u>Given:</u> $(15, 25.5); m = 1.5$ <u>Equation:</u> $y - 25.5 = 1.5(x - 15)$ \$3 | <u>Given:</u> $b = \$50, m = 25$ <u>Equation:</u> $y = 25x + 50$ 4.5 hours | <u>Given:</u> rate of $x = \$20$, rate of $y = \$5$ <u>Equation:</u> $20x + 5y = 100$ 8 treats | <u>Given:</u> $(10, 11), (15, 8)$ <u>Equations:</u> $y - 11 = -\frac{3}{5}(x - 10)$ or $y - 8 = -\frac{3}{5}(x - 15)$ 13.4 km |
| C | <u>Given:</u> $(1, 35), (3, 57)$ <u>Equations:</u> $y - 35 = 11(x - 1)$ or $y - 57 = 11(x - 3)$ 79 participants | <u>Given:</u> $m = 18, (2, 81)$ <u>Equation:</u> $y - 81 = 18(x - 2)$ \$45 | <u>Given:</u> $b = 5 \text{ cm}, m = 1.5$ <u>Equation:</u> $y = 1.5x + 5$ 8 days | <u>Given:</u> rate of $x = 2 \text{ pts}$, rate of $y = 4 \text{ pts}$ <u>Equation:</u> $2x + 4y = 100$ 2 questions |
| D | <u>Given:</u> rate of $x = \$4$, rate of $y = \$6$ <u>Equation:</u> $4x + 6y = 48$ 6 pounds | <u>Given:</u> $(5, 93), (3, 57)$ <u>Equations:</u> $y - 57 = 18(x - 3)$ or $y - 93 = 18(x - 5)$ \$75 | <u>Given:</u> $m = 33, (6, 228)$ <u>Equation:</u> $y - 228 = 33(x - 6)$ \$30 | <u>Given:</u> $b = \$6, m = 3.25$ <u>Equation:</u> $y = 3.25x + 6$ About 5.5 hours |