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Solving equations with Algebraic Fractions
 $\frac{ax}{bx} = \frac{c}{d}$
 $\frac{ax}{bx} = \frac{c}{d} \Rightarrow ax = \frac{c}{d} \cdot bx$
 $x(a - \frac{cd}{b}) = 0$
 $x = 0 \text{ or } a - \frac{cd}{b} = 0$
 $a = \frac{cd}{b}$

L7
Grade C
Progression: Quick

Solving Linear Equations (D)



Solve the equations and leave your answers as simplified fractions or as decimals.

Section A

1) $\frac{2x+5}{3} = 11$	5) $8x + \frac{1-4x}{8} = 7$	9) $2 + \frac{4x}{3} - 7 = 1$
2) $\frac{8-3x}{2} = 5$	6) $\frac{5}{x} = -6$	10) $4 - \frac{3x}{2} = 3x + 5$
3) $\frac{5-9x}{6} = -2$	7) $\frac{11}{4x} + 9 = 3$	11) $6 - \frac{2}{x} = 10$
4) $\frac{7x+6}{3} - 9 = -12$	8) $5 - \frac{3x}{4} = 8x$	12) $4 - \frac{2x}{9} + x = -1$

Section B

1) $4(2x-3) = 8(2x+5)$	7) $7(4-3x) = 2(8x-9) + 6$
2) $3(4x-5) = 5(2x-5)$	8) $-6(3-4x) + 2x = 8(x+11)$
3) $8(6x+2) = 5(x-2)$	9) $3(2x-6) = 3-4(3-x)$
4) $2(3x-4) = 7(11-2x)$	10) $9(2x-1)-3x = 3(12+x)$
5) $7(5-x) = -4(x-11)$	11) $4x-(2x-8) = 5(1+2x)$
6) $-4(x-8) = -6(4+3x)$	12) $10-6(8x-2) = 9x-(3+4x)$

Section C

1) $\frac{5x-2}{3} = \frac{4x+1}{2}$	8) $\frac{1}{2}(5x+7) = \frac{3}{4}(3x-1)$
2) $\frac{7x-8}{5} = \frac{2x+5}{4}$	9) $\frac{5}{3x+1} = 12$
3) $\frac{-8x-1}{2} = \frac{5-3x}{6}$	10) $\frac{x+2}{x+3} = 4$
4) $\frac{5(x+11)}{3} = \frac{3(1+x)}{2}$	11) $\frac{2x-9}{3x-2} = -3$
5) $\frac{3(2+5x)}{4} = \frac{2(6x-3)}{5}$	12) $\frac{2}{3x+10} = \frac{1}{x-1}$
6) $\frac{2(3x-5)}{3} = \frac{-4(x-2)}{7}$	13) $\frac{2}{7x+3} = \frac{9}{2x-5}$
7) $\frac{1}{2}(2x-6) = \frac{1}{4}(8-12x)$	14) $\frac{8}{6x+12} = -\frac{11}{7x-10}$

Identities 1

Put the expressions, equations, identities and formulas in the correct place.

Equation	Identity	Formula	Expression

$2x^2$	$C = zd$	$x^2 + 1tx - 6x^2 + 6$
$abc = bca$	$2x - 7 = 13$	a
$a - b$	$(a+b)^2 = a^2 + 2ab + b^2$	$3(2x^2 + 3) - 6x^2 - 9$
$5x^2 = 40$	$4ab'c - 2c^2$	$y = mx + c$
$A = \pi r(r^2 + r^2)$	$4(a-b) = 4a - 4b$	$(a-2)(a-3)(a-5) = 0$

Extension : Solve each equation and state the formula.

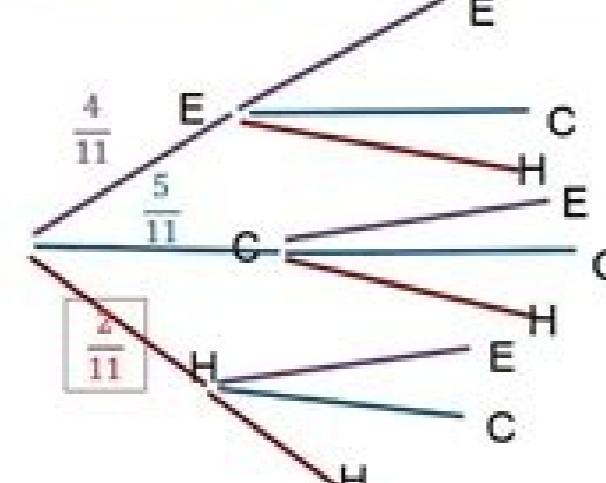
Probability (Tree Diagram Sandwiches), GCSE, IGCSE, 10th Grade Math, CXC Math

There are three different types of sandwiches on a shelf.

There are
4 egg sandwiches,
5 cheese sandwiches
and 2 hash sandwiches.

Erin takes at random 2 of these sandwiches.

- In the first pick, he can either get an egg sandwich (E), probability $\frac{4}{11}$
- or Cheese, probability of $\frac{5}{11}$
- or Hash (H) sandwich, probability $\frac{2}{11}$
- Probability of picking E and E =



Solving Linear Equations (A)**Section A**

- | | | | |
|-----------------|-----------------|------------------|------------------|
| 1) $x + 3 = 11$ | 4) $x + 7 = 13$ | 7) $x + 3 = 9$ | 10) $x + 5 = 36$ |
| 2) $x + 2 = 8$ | 5) $x + 4 = 14$ | 8) $x + 12 = 17$ | 11) $x + 8 = 43$ |
| 3) $x + 5 = 7$ | 6) $x + 7 = 9$ | 9) $x + 6 = 24$ | 12) $x + 9 = 61$ |

Section B

- | | | | |
|-----------------|------------------|------------------|-------------------|
| 1) $4 + x = 6$ | 4) $5 + x = 9$ | 7) $14 + x = 23$ | 10) $8 + x = 72$ |
| 2) $2 + x = 7$ | 5) $7 + x = 12$ | 8) $19 + x = 32$ | 11) $11 + x = 64$ |
| 3) $8 + x = 11$ | 6) $12 + x = 18$ | 9) $7 + x = 40$ | 12) $28 + x = 90$ |

Section C

- | | | | |
|----------------|-----------------|-----------------|-------------------|
| 1) $x - 4 = 7$ | 4) $x - 7 = 13$ | 7) $x - 11 = 8$ | 10) $x - 12 = 31$ |
| 2) $x - 6 = 4$ | 5) $x - 10 = 2$ | 8) $x - 5 = 16$ | 11) $x - 16 = 29$ |
| 3) $x - 1 = 6$ | 6) $x - 7 = 18$ | 9) $x - 9 = 25$ | 12) $x - 28 = 78$ |

Section D

- | | | | |
|--------------|---------------|---------------|-----------------|
| 1) $2x = 6$ | 4) $10x = 90$ | 7) $7x = 35$ | 10) $20x = 40$ |
| 2) $5x = 10$ | 5) $3x = 15$ | 8) $12x = 36$ | 11) $40x = 120$ |
| 3) $4x = 12$ | 6) $6x = 24$ | 9) $15x = 30$ | 12) $50x = 200$ |

Section E

- | | | | |
|----------------------|----------------------|----------------------|------------------------|
| 1) $\frac{x}{3} = 4$ | 4) $\frac{x}{8} = 4$ | 7) $\frac{x}{2} = 9$ | 10) $\frac{x}{12} = 6$ |
| 2) $\frac{x}{2} = 8$ | 5) $\frac{x}{7} = 3$ | 8) $\frac{x}{9} = 5$ | 11) $\frac{x}{14} = 2$ |
| 3) $\frac{x}{5} = 7$ | 6) $\frac{x}{5} = 4$ | 9) $\frac{x}{7} = 8$ | 12) $\frac{x}{30} = 5$ |

Section F

- | | | | |
|-----------------------|-------------------------|-------------------------|-------------------------|
| 1) $4x = 48$ | 7) $x - 19 = 30$ | 13) $7x = 56$ | 17) $5x = 100$ |
| 2) $x + 13 = 22$ | 8) $10x = 160$ | 14) $18 + x = 24$ | 18) $\frac{x}{3} = 300$ |
| 3) $9x = 63$ | 9) $13 + x = 27$ | 15) $6x = 42$ | 19) $x + 49 = 110$ |
| 4) $11x = 132$ | 10) $6x = 42$ | 11) $x + 17 = 42$ | 20) $100x = 6500$ |
| 5) $12 + x = 26$ | 11) $x + 17 = 42$ | 12) $\frac{x}{11} = 11$ | 16) $25 + x = 39$ |
| 6) $\frac{x}{8} = 12$ | 12) $\frac{x}{11} = 11$ | 17) $5x = 100$ | 20) $100x = 6500$ |

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