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Open

Solving 2 Step Equations

A

- | | |
|---------------|----------------|
| 1. $2x+5=11$ | 11. $7x+4=32$ |
| 2. $3x+6=24$ | 12. $8x+9=13$ |
| 3. $2x+3=8$ | 13. $5x+8=48$ |
| 4. $3x+2=14$ | 14. $4x+2=26$ |
| 5. $8x+8=24$ | 15. $12x+1=13$ |
| 6. $9x-5=85$ | 16. $11x+3=74$ |
| 7. $5x+6=26$ | 17. $7x+4=52$ |
| 8. $2x+7=14$ | 18. $6x+5=44$ |
| 9. $3x+2=22$ | 19. $10x+6=94$ |
| 10. $4x+1=45$ | 20. $4x+9=57$ |

B

- | | |
|----------------|------------------|
| 1. $5(x+3)=25$ | 7. $4(x+1)=28$ |
| 2. $4(x+1)=20$ | 8. $6(x-5)=60$ |
| 3. $3(x-7)=21$ | 9. $7(x-2)=56$ |
| 4. $2(x+4)=20$ | 10. $2(x+1)=22$ |
| 5. $6(x-2)=36$ | 11. $9(x+1)=72$ |
| 6. $8(x-5)=48$ | 12. $11(x+2)=88$ |

C

- | | |
|---------------------------|----------------------------|
| 1. $\frac{x}{2} + 4 = 9$ | 7. $\frac{x}{5} - 7 = 4$ |
| 2. $\frac{x}{3} + 7 = 14$ | 8. $\frac{x}{4} + 12 = 20$ |
| 3. $\frac{x}{2} + 5 = 9$ | 9. $\frac{x}{7} - 10 = 2$ |
| 4. $\frac{x}{4} - 3 = 8$ | 10. $\frac{x}{6} + 4 = 10$ |
| 5. $\frac{x}{5} + 9 = 12$ | 11. $\frac{x}{8} + 2 = 7$ |
| 6. $\frac{x}{7} - 8 = 2$ | 12. $\frac{x}{9} + 9 = 10$ |

D

- | | |
|------------------------|-------------------------|
| 1. $\frac{x+8}{3} = 9$ | 7. $\frac{x+2}{7} = 9$ |
| 2. $\frac{x+8}{3} = 9$ | 8. $\frac{x-2}{2} = 22$ |
| 3. $\frac{x+8}{3} = 7$ | 9. $\frac{x-4}{3} = 5$ |
| 4. $\frac{x+2}{4} = 6$ | 10. $\frac{x+2}{8} = 4$ |
| 5. $\frac{x-3}{5} = 7$ | 11. $\frac{x+5}{2} = 7$ |
| 6. $\frac{x-1}{6} = 8$ | 12. $\frac{x+8}{5} = 2$ |

Solving quadratics

Section A

Rearrange these equations and solve to find x:

1. $4 = x^2 + 5x + 10$

4. $2x + 1 = x^2 + 3x - 11$

2. $1 = x^2 + 3x + 3$

5. $5x - 2 = x^2 + 11x + 6$

3. $3x - 4 = -x^2 + 9x + 3$

6. $2 = x^2 + 6x + 11$

Section B

We want to solve the equation $x + 9 = x^2 + 7x + 2$.How can we get this into the form $x^2 + 6x - 7$?Use the graph $y = x^2 + 6x - 7$ to solve $x + 9 = x^2 + 7x + 2$.Use the graph $y = x^2 + 15x + 54$ to solve the equation $-6x + 10 = x^2 + 9x + 64$.Use the graph $y = x^2 - 12x + 32$ to solve the equation $x^2 + x + 32 = 13x$.Use the graph $x = y^2 + 3y - 4$ to solve the equation $-2y - 3 = y^2 + y - 7$.

L4
Grade
Progression: Light

Solving Linear Equations (A)

Solve the equations to find x.

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) $\frac{x}{4}=12$ | 19) $x+49=110$ |
| 4) $15x=132$ | 10) $6x=42$ | 16) $25+x=39$ | 20) $100x=6500$ |
| 5) $12+x=26$ | 11) $x+17=42$ | | |
| 6) $\frac{x}{8}=12$ | 12) $\frac{x}{11}=11$ | | |

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Algebra · Level 4 · Equations · Solving Linear Equations (A)

Edexcel GCSE Mathematics (Linear) – 1MA0

SOLVING SIMULTANEOUS EQUATIONS GRAPHICALLY

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers
Nil



Instructions

Use black ink or ball-point pen.
Fill in the boxes at the top of this page with your name, centre number and candidate number.
Answer all questions.
Answer the questions in the spaces provided – there may be more space than you need.
Calculators may be used.

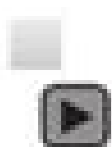
Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on **each** question.
Questions labelled with an **asterisk (*)** are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

Read each question carefully before you start to answer it.
Keep an eye on the time.
Try to answer every question.
Check your answers if you have time at the end.

When you have finished scan the QR code
for the answers of go to
<http://goo.gl/lOuxBe>



Solving Equations Examples

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Solve the following equations

Balancing method

$$\begin{array}{r} 8a - 5 = 11 \\ 8a = 16 \\ a = 2 \end{array}$$

Function machine method

$$\begin{array}{r} 8a - 5 = 11 \\ a \rightarrow +8 - 5 \rightarrow 11 \\ 2 \rightarrow +8 - 5 = 11 \\ a = 2 \end{array}$$

Balancing method

$$\begin{array}{r} 10 + 6y = 34 \\ -10 \quad -10 \\ 6y = 24 \\ y = 4 \end{array}$$

Function machine method

$$\begin{array}{r} 10 + 6y = 34 \\ y \rightarrow +6 \rightarrow +10 \rightarrow 34 \\ 4 \rightarrow +6 \rightarrow +10 = 34 \\ y = 4 \end{array}$$

Balancing method

$$\begin{array}{r} \frac{x}{12} - 5 = 4 \\ +5 \quad +5 \\ \frac{x}{12} = 9 \times 12 \\ x = 108 \end{array}$$

Function machine method

$$\begin{array}{r} \frac{x}{12} - 5 = 4 \\ x \rightarrow +12 \rightarrow +5 \rightarrow 4 \\ 108 \rightarrow +12 \rightarrow +5 = 4 \\ x = 108 \end{array}$$

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Always try to keep your letters positive (makes it much easier!). Truly full of mathematical solutions, Wyzant provides more than just an equestrian calculator and actually connects you with people who trained to teach the math you need. We keep the equation in balance "À while simplifying your response "À doing the same operations on both sides until you have your final response. Whether you love math or suffer from every single problem, there are many resources to help you solve mathematical equations. Skip the tutor and log in to upload these fantastic websites for a fantastic free equation solver or simply to find answers to solve equations on the Internet. Stand By for automatic mathematical solutions to Quick MathThe Quick Math website offers easy answers to solve equations along with a simple format that makes mathematics a no-brainer. Essentially you have to 'strip' all the numbers around the letter you're finding doing the opposite of the number operation (so if you have a minus then you have to add to both sides). Simply insert your math problem into the Mathway calculator, and choose what you want the math management program to do with the problem. There are other types of more challenging equations you need to know, including quadratic equations and simultaneous equations; But don't worry, we've covered you with other in-depth review guides on these topics. More to be questioned. Solving equations means finding the value of the number represented by a letter in an equation, then the final answer will be similar to: x = 4. "À The method we use "À is often called the equilibrium method. Solve the following equations: 4x = 24x + 5 = 112a "À "À 3 = 72x + 5 = 93y "À "À 2 = 25x/2 + 5 = 123(x+4) = 183x + 2 = x + 82x + 5 = 4x "À "À 35(y + 7) = 3(2y + 5) For example:"À With this method to solve equations you can solve any linear equation that give you (a single equation with a single unknown and no index point (a). That whatever you do on one side of the equation you have to do on the other side. 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