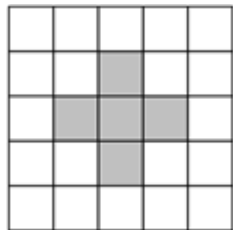# QUICK COVER

Solving linear equations 2

Task 1 : Solving $x + 6 = 12$ and $x - 8 = 5$

Task 2 : Solving $5x = 30$ and $x \div 6 = 7$

Task 3 : Solving $4x + 3 = 27$

Task 4 : Solving $5x - 4 = 31$

Puzzle : Mixture of **Tasks 3** and **4**

Help and hints......   Solving linear equations 2

Remember that you must 'do the same' to the expressions on both sides of the equals sign.

TASK 1

1) $x + 3 = 7$ *Subtract 3 from both sides*

   $x + 3 - 3 = 7 - 3$

   $x = 4$

2) $x - 6 = 7$ *Add 6 to both sides*

   $x - 6 + 6 = 7 + 6$

   $x = 13$

TASK 2

1) $6x = 42$ *Divide both sides by 6*

   $6x \div 6 = 42 \div 6$

   $x = 7$

2) $x \div 10 = 3$ *Multiply both sides by 10*

   $x \div 10 \times 10 = 3 \times 10$

   $x = 30$

TASK 3

$4x + 3 = 35$ *Subtract 3 from both sides*
   $_{-3} \qquad _{-3}$

$4x = 32$ *Divide both sides by 4*
   $_{\div 4} \qquad _{\div 4}$

$x = 8$

TASK 4

$5x - 2 = 18$ *Add 2 to both sides*
   $_{+2} \qquad _{+2}$

$5x = 20$ *Divide both sides by 5*
   $_{\div 5} \qquad _{\div 5}$

$x = 4$

Solving Linear Equations 2

TASK 1	TASK 2	TASK 3	TASK 4
1. $x + 3 = 12$	1. $x \div 8 = 9$	1. $10x + 4 = 114$	1. $8x - 6 = 34$
2. $x - 1 = 13$	2. $8x = 72$	2. $7x + 2 = 65$	2. $3x - 8 = 28$
3. $x + 18 = 22$	3. $5x = 15$	3. $8x + 7 = 79$	3. $3x - 7 = 14$
4. $x - 6 = 9$	4. $x \div 9 = 9$	4. $2x + 10 = 20$	4. $12x - 6 = 90$
5. $x + 9 = 21$	5. $10x = 90$	5. $5x + 10 = 70$	5. $4x - 3 = 13$
6. $x + 22 = 32$	6. $3x = 12$	6. $5x + 11 = 66$	6. $10x - 10 = 70$
7. $x + 5 = 12$	7. $x \div 8 = 2$	7. $10x + 12 = 112$	7. $10x - 8 = 62$
8. $x - 4 = 15$	8. $5x = 30$	8. $12x + 3 = 87$	8. $12x - 9 = 51$
9. $x + 12 = 20$	9. $x \div 4 = 10$	9. $12x + 12 = 36$	9. $4x - 8 = 24$
10. $x - 1 = 15$	10. $3x = 21$	10. $3x + 3 = 36$	10. $6x - 3 = 9$
11. $x - 1 = 17$	11. $x \div 11 = 11$	11. $9x + 11 = 92$	11. $8x - 6 = 66$
12. $x - 5 = 6$	12. $x \div 9 = 5$	12. $6x + 10 = 22$	12. $5x - 6 = 34$
13. $x + 10 = 15$	13. $10x = 30$	13. $6x + 6 = 48$	13. $3x - 10 = -4$
14. $x - 6 = 5$	14. $8x = 16$	14. $3x + 4 = 28$	14. $12x - 6 = 102$
15. $x - 5 = 15$	15. $x \div 8 = 4$	15. $9x + 7 = 115$	15. $9x - 5 = 40$

Solving Linear Equations 2

TASK 1	TASK 2	TASK 3	TASK 4
1. $x = 9$	1. $x = 72$	1. $x = 11$	1. $x = 5$
2. $x = 14$	2. $x = 9$	2. $x = 9$	2. $x = 12$
3. $x = 4$	3. $x = 3$	3. $x = 9$	3. $x = 7$
4. $x = 15$	4. $x = 81$	4. $x = 5$	4. $x = 8$
5. $x = 12$	5. $x = 9$	5. $x = 12$	5. $x = 4$
6. $x = 10$	6. $x = 4$	6. $x = 11$	6. $x = 8$
7. $x = 7$	7. $x = 16$	7. $x = 10$	7. $x = 7$
8. $x = 19$	8. $x = 6$	8. $x = 7$	8. $x = 5$
9. $x = 8$	9. $x = 40$	9. $x = 2$	9. $x = 8$
10. $x = 16$	10. $x = 7$	10. $x = 11$	10. $x = 2$
11. $x = 18$	11. $x = 121$	11. $x = 9$	11. $x = 9$
12. $x = 11$	12. $x = 45$	12. $x = 2$	12. $x = 8$
13. $x = 5$	13. $x = 3$	13. $x = 7$	13. $x = 2$
14. $x = 11$	14. $x = 2$	14. $x = 8$	14. $x = 9$
15. $x = 20$	15. $x = 32$	15. $x = 12$	15. $x = 5$

8x - 11 = 21

x = 30

2x + 2 = 3

2x + 12 = 25

x = 1

x = 2.5

6x - 12 = 60

5x + 11 = 41

x = 2

x = 4

9x - 7 = 92

11x + 7 = 106

x = 8

x = 16

x = 7

x = 15

2x + 5 = 12

2x + 5 = 16

x = 4.5

2x + 5 = 47

2x + 8 = 18

3x + 12 = 15

x = 10

x = 12

2x + 7 = 23

x = 5

2x + 7 = 16

x = 10

x = 3.5

11x - 11 = 99

x = 5.5

5x + 9 = 109

5x + 2 = 37

x = 0.5

2x - 3 = 2

x = 6.5

4x - 3 = 57

x = 11

x = 9

2x - 11 = -7

x = 6

3x - 5 = 61

x = 20

3x - 4 = 86

10x + 9 = 199

x = 22

3x - 10 = 20

x = 21