Solving Linear Equations with Brackets and Fractions

| 1. Solve | 2(t + 1) = 6 |
|----------|----------------------|
| | |
| | |
| | |
| 2. Solve | 2(a - 2) = 11 |
| | |
| | |
| | |
| 3. Solve | $\frac{2x+1}{3} = 3$ |
| | |
| | |
| | |
| 4. Solve | 3(x-2) = 42 |
| | |
| | |
| | |
| 5. Solve | $\frac{2x+5}{9} = 3$ |
| | |
| | |
| | |

| 6. | Solve | $\frac{3b-4}{7} = 2$ |
|-----|-------|-----------------------|
| | | |
| | | |
| | | |
| 7. | Solve | 2(k + 5) = 20 |
| | | |
| | | |
| | | |
| 8. | Solve | 2(j + 4) = 2 |
| | | |
| | | |
| | | |
| 9. | Solve | $\frac{a}{3} + 1 = 4$ |
| | | |
| | | |
| | | |
| 10. | Solve | 2(a-3) = 2(4 + 1) |
| | | |
| | | |

Solving Linear Equations with Brackets and Fractions

Solving Linear Equations with Brackets and Fractions **Answers**

- 1. *t* = 2
- 2. *a* = 7.5
- 3. *x* = 4
- 4. *x* = 16
- 5. *x* = 11
- 6. **b** = 6
- 7. **k** = 5
- 8. *j* = -3
- 9. *a* = 9
- 10. *a* = 8

Solving Linear Equations with Brackets and Fractions

1. Solve 2(t + 1) = 6

$$2(t + 1) = 6$$

$$2t + 2 = 6$$

$$-2$$

$$\div 2$$

$$t = \div 2$$

2. Solve
$$2(a-2) = 11$$

$$2(a - 2) = 11$$

$$2a - 4 = 11$$

$$+ 4$$

$$\div 2$$

$$a = \div 2$$

3. Solve $\frac{2x+1}{3} = 3$

| | $\frac{2x+1}{3} = 3$ | |
|-----|----------------------|-----|
| × 3 | 2x + 1 = 9 | × 3 |
| - 1 | | - 1 |
| ÷2 | <i>x</i> = | ÷ 2 |

4. Solve 3(x-2) = 42

$$3(x - 2) = 42$$

$$3x - 6 = 42$$

$$+ 6$$

$$3x - 6 = 42$$

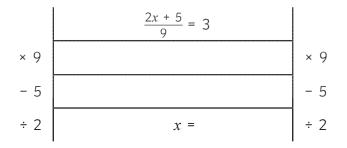
$$+ 6$$

$$3x - 6 = 42$$

$$+ 6$$

$$3x - 6 = 42$$

5. Solve $\frac{2x+5}{9} = 3$



6. Solve $\frac{3b-4}{7} = 2$

$$\begin{array}{c|c} 3b - 4 \\ \hline 7 \\ \times 7 \\ + 4 \\ \div 3 \end{array} = 2 \\ \times 7 \\ + 4 \\ b = \\ \hline 3 \\ b = \\ \hline 3 \\ \hline 5 \\ \end{array}$$

7. Solve 2(k+5) = 20

$$2(k + 5) = 20$$
- 10
$$\div 2$$

$$k = \div 2$$

8. Solve
$$2(j + 4) = 2$$

$$2(j + 4) = 2$$
- 8
- 8
- 2
j = - 8
- 2

9. Solve $\frac{a}{3} + 1 = 4$

+ 6

÷ 2

10. Solve
$$2(a-3) = 2(4 + 1)$$

+ 6
÷ 2 $a =$

Solving Linear Equations with Brackets and Fractions **Answers**

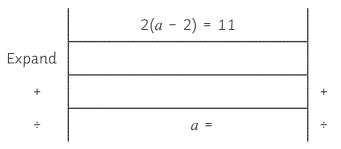
- 1. *t* = 2
- 2. *a* = 7.5
- 3. x = 4
- 4. *x* = 16
- 5. *x* = 11
- 6. *b* = 6
- 7. k = 5
- 8. *j* = -3
- 9. *a* = 9
- 10. *a* = 8

Solving Linear Equations with Brackets and Fractions

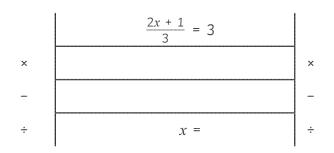
1. Solve 2(t + 1) = 6

| | 2(t + 1) = 6 | |
|---|--------------|---|
| | 2t + 2 = 6 | |
| - | | - |
| ÷ | t = | ÷ |

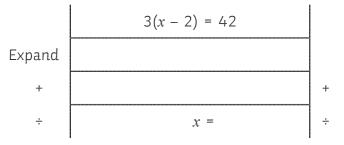
2. Solve 2(a-2) = 11



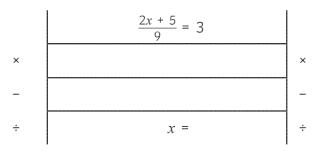
3. Solve $\frac{2x+1}{3} = 3$



4. Solve 3(x-2) = 42



5. Solve $\frac{2x+5}{9} = 3$



6. Solve
$$\frac{3b-4}{7} = 2$$

$$\begin{array}{c|c} \frac{3b-4}{7} = 2 \\ \end{array}$$

$$\begin{array}{c|c} \times \\ + \\ \div \end{array} \\ b = \end{array} \\ \begin{array}{c|c} \\ \times \\ \\ \end{array}$$

7. Solve 2(k+5) = 20

$$2(k + 5) = 20$$

 $2k + 10 = 20$
 $k =$

8. Solve 2(j + 4) = 2

| 2(j + 4) = 2 | |
|--------------|--|
| | |
| | |
| <i>j</i> = | |

9. Solve $\frac{a}{3} + 1 = 4$

| $\frac{a}{3}$ | | | | | |
|---------------|--|--|--|--|--|
| | | | | | |
| | | | | | |

10. Solve 2(a-3) = 2(4+1)

Solving Linear Equations with Brackets and Fractions **Answers**

- 1. *t* = 2
- 2. *a* = 7.5
- 3. x = 4
- 4. *x* = 16
- 5. *x* = 11
- 6. *b* = 6
- 7. k = 5
- 8. *j* = -3
- 9. *a* = 9
- 10. *a* = 8

Iterar Equations
Handed and Fractions
$$3(x + 1) = 15$$
Iterar Equations
and Fractions $2(t + 1) = 6$ Iterar Equations
Practice and Fractions $3(x + 1) = 15$ $x = 4$ $2(t + 1) = 6$ Iterar Equations
Practice and Fractions $x = 4$ $2(t + 1) = 6$ Iterar Equations
Practice and Fractions $x = 4$ $2(t + 1) = 6$ Iterar Equations
Practice and Fractions $x = 4$ $2(t + 1) = 6$ Iterar Equations
Handet and Fractions $x = 11$ $4(2y + 3) = 26$ $x = 7.5$ $\frac{2x + 5}{9} = 3$ Iterar Equations
Handet and Fractions $4(2y + 3) = 26$ $x = 1.75$ $\frac{a}{3} + 1 = 4$ Iterar Equations
Practice and Fractions $x = 42$ $2(k + 5) = 20$ Iterar Equations
Practice and Fractions $x = 42$ $2(k + 5) = 20$

Inter Equation
Instant and Fraction
$$2(t + 4) = 2$$
Inter Equation
action and Fractions $3(a + 7) = 30$ Inter Equation
Practice and Fractions $2(t + 4) = 2$ Inter Equations
 $2(a + 7) = 30$ Inter Equations
 $2(a + 7) = 30$ Inter Equations
Practice and Fractions $2(3 + x) = 2$ Inter Equations
 $2(3 + x) = 2$ Inter Equations
 $2(a + 7) = 30$ Inter Equations
Practice and Fractions $2(3 + x) = 2$ Inter Equations
 $2(a + 7) = 30$ Inter Equations
 $2(a + 7) = 30$ Inter Equations
Practice and Fractions $2(3 + x) = 2$ Inter Equations
 $2(a + 7) = 30$ Inter Equations
 $2(a + 7) = 30$ Inter Equations
Practice and Fractions $3 = 2x + 14$ Inter Equations
 $2(x + 5) = 30$ Inter Equations
 $x = 10$ $3(x - 2) = 42$ Inter Equations
Practice and Fractions
Practice and Fractions
 $x = 10$ $3(x - 2) = 42$

Linear figurations

$$x = 16$$

$$\frac{3y - 4}{7} = 2$$

$$y = 6$$

$$\frac{2k - 6}{2} = 7$$
Linear figurations

$$k = 10$$

$$3(2t - 4) = 24$$

$$\frac{1}{3} = 6$$

$$2(y - 15) = 3$$
Linear figurations

$$y = 16.5$$

$$\frac{2a + 1}{3} = 3$$

$$\frac{1}{3} = 4$$

$$4(x + 1) = 12$$
Linear figurations

$$x = 2$$

$$2(x + 3) = 7$$

$$x = 0.5$$

$$2(x - 1) = -4$$

Linear Equations
Brackets and Fractions
$$\frac{x}{10} + 7 = 82$$
Linear Equations
 $x = 750$ $\frac{x}{25} - 7 = 30$ Linear Equations
Brackets and Fractions $x = 750$ $\frac{x}{25} - 7 = 30$ Linear Equations
Brackets and Fractions $y = 33$ $2(5k - 3) = 14$ Linear Equations
Brackets and Fractions $y = 33$ $2(5k - 3) = 14$ Linear Equations
Brackets and Fractions $x = 1.5$ End

Iter Equation
Practice
Practice
$$3(x + 1) = 15$$
Iter Equation
Practice
 $x = 4$ $2(t + 1) = 6$ Iter Equation
Practice
P

Litter Equation
backets and Fractions
$$2(t + 4) = 2$$
Litter Equation
and Fractions $3(a + 7) = 30$ Litter Equations
machets and Fractions $2(t + 4) = 2$ Litter Equations
machets and Fractions $3(a + 7) = 30$ Litter Equations
machets and Fractions $2(3 + x) = 2$ Litter Equations
machets and Fractions $x = -2$ $\frac{k}{5} + 3 = 7$ Litter Equations
machets and Fractions $2(3 + x) = 2$ Litter Equations
machets and Fractions $x = -2$ $\frac{k}{5} + 3 = 7$ Litter Equations
machets and Fractions $3 = 2x + 14$ Litter Equations
machets and Fractions $x = -5.5$ $4 = 4(2a + 3)$ Litter Equations
machets and Fractions $2(x + 5) = 30$ Litter Equations
machets and Fractions
machets and Fractions
machets and Fractions $3(x - 2) = 42$

Linear Aquation
backet and Practices
$$3y - 4$$

 7 2 $y = 6$ $\frac{2k - 6}{2} = 7$ Linear Aquation
Windex and Practices $3(2t - 4) = 24$ Linear Equations
backet and Practices $2(y - 15) = 3$ Linear Aquations
Windex and Practices $3(2t - 4) = 24$ Linear Aquations
backet and Practices $1 = 6$ $2(y - 15) = 3$ Linear Aquations
Windex and Practices $2a + 1$
 $3 = 3$ $a = 4$ $4(x + 1) = 12$ Linear Aquations
Windex and Practices $2a + 1$
 $3 = 3$ $a = 4$ $4(x + 1) = 12$ Linear Aquations
Windex and Practices
 $x = 2$ $2(x + 3) = 7$ $x = 0.5$
 $x = 0.5$ $2(x - 1) = -4$

Linear Equations
Brackets and Fractions
$$\frac{x}{10} + 7 = 82$$
Linear Equations
Brackets and Fractions
 $x = 750$ $\frac{x}{25} - 7 = 30$ Linear Equations
Brackets and Fractions $\frac{x}{10} + 7 = 82$ $\frac{x}{25} - 7 = 30$ Linear Equations
Brackets and Fractions $\frac{y}{3} + 1 = 12$ $\frac{1}{9} = 33$ $2(5k - 3) = 14$ Linear Equations
Brackets and Fractions $y = 33$ $2(5k - 3) = 14$ Linear Equations
Brackets and Fractions $x = 1.5$ End

Algebra Solving Linear Equations



Learning Objective

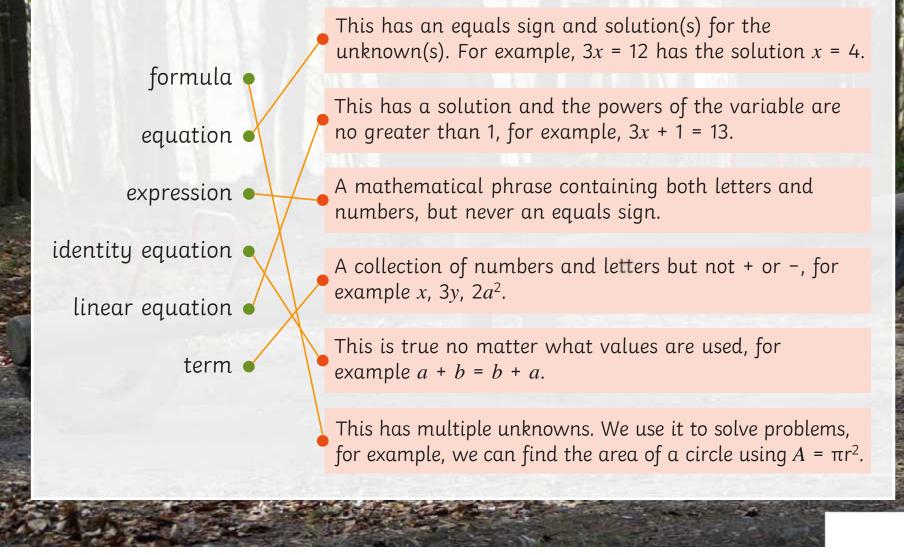
To solve linear equations.

Success Criteria

- To solve linear equations with an unknown on one side.
- To solve linear equations involving brackets and fractions.
- To create and then solve linear equations.

Starter: Match-Up

Match up the following keywords to their definitions:



Solving Linear Equations

There are 8 counters in each bag.

+

We can also use algebra to solve this problem...

+

3x = 24 $x = 24 \div 3$

= 24

Assuming there are

of counters in each

counters does each

the same number

bag, how many

bag hold?

x = 8

Solving Linear Equations

15

We can use algebra to solve this problem...

There are equal numbers of counters in both bags. I have 2 bags of counters and 3 extra counters. Altogether I have 15 counters. How many counters do I have in each bag?

There are 6 counters in each bag.

Solve the following equation: a + 4 = 12

What is the question asking?

It is asking us to find out the value of a. Something add 4 is equal to 12.

a + 4

Although this may seem straightforward and you can easily identify what the value of *a* is, we can also use something called 'The Funnel Method' to help us solve this equation.

This method involves 'funnelling' out the known values and leaving the unknown on it's own on one side of the equation.

Your aim is to get the letter on one side of the equals sign and the numbers on the other. You are only able to cancel one term or number at a time and you must use its inverse when cancelling.

$$a + 4 = 12$$

4 $a = 8$ -4

Final answer: a = 8

Solve the following equation: 2x -

$$2x - 6 = 8$$

What is the question asking?It is asking us to find out the value of *x*.Something multiplied by 2, subtract 6 is equal to 8.

Your aim is to gather the letter on one side and numbers on the other. Remember, you are only able to cancel one term or number at a time and you must use its inverse when cancelling.

$$2x - 6 = 8$$

+6 $2x = 14$ +6
÷2 $x = 7$ ÷2

Final answer: x = 7

Solve each of the following equations:

| 1. $a - 5 = 20$ | <i>a</i> = 25 |
|-------------------|---------------|
| 2. $5x = 30$ | <i>x</i> = 6 |
| 3. $2x + 4 = 12$ | <i>x</i> = 4 |
| 4. $3y - 5 = 25$ | <i>y</i> = 10 |
| 5. $9z + 8 = -10$ | z = -2 |
| | |



Solving Linear Equations Involving Brackets and Fractions

Solve the following equation: 3(2t - 4) = 24

Step 1: Expand the bracket 6t - 12 = 24

Step 2: Use 'The Funnel Method' to solve your equation.

6t - 12 = 24+12 6t = 36 +12 $\div 6$ t = 6 $\div 6$

Final answer: *t* = 6

Solving Linear Equations Involving Brackets and Fractions

 $\frac{y}{2} + 1 = 12$

Solve the following equation:

$$\frac{y}{3} + 1 = 12$$

-1

×3

 $\frac{y}{3} = 11$

y = 33

-1

×3

Note that to cancel out the fraction, we must multiply by the denominator.

Final answer: y = 33

Solving Linear Equations Involving Brackets and Fractions

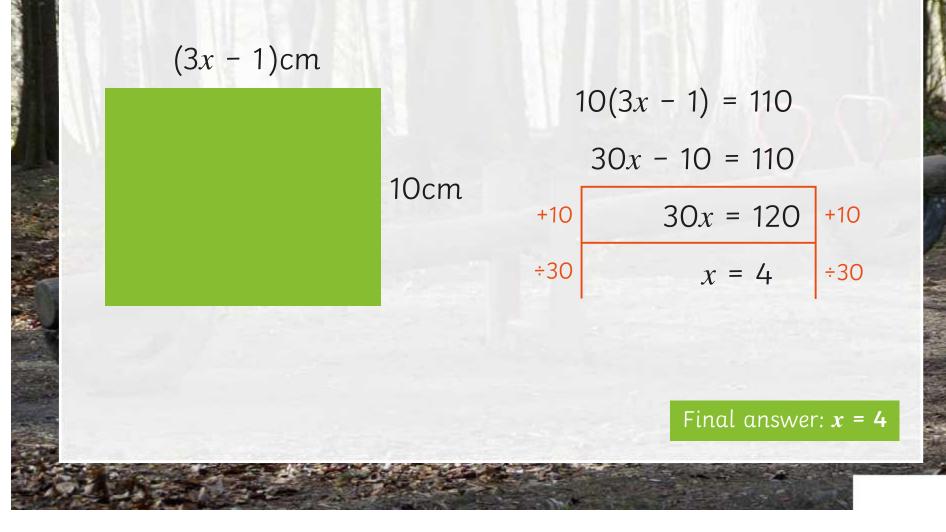
Solve each of the following equations:

| 1. | 2(5m - 3) = 14 | <i>m</i> = 1 |
|----|----------------------|----------------|
| 2. | 2(x + 3) = 7 | <i>x</i> = 0.5 |
| 3. | $\frac{2r+1}{3} = 3$ | r = 4 |



Plenary

What is the value of x if the area of this rectangle is 110 cm^2 ?







Learning Objective: To solve linear equations.

| Success Criteria: | • To solve linear equations with an unknown on one side. |
|-------------------|---|
| | To solve linear equations involving brackets and fractions. |
| | • To create and then solve linear equations. |
| Context: | This is the first lesson of two on solving linear equations and could be used in a sequence of lessons on the topic of Algebra in a wider context. Students should have a confident understanding of basic numeracy, including inverse operations as well as knowledge of how to expand a single bracket. |

Starter

You should use the starter to ensure that students have a firm understanding of the differences between the keywords as well as what an equation is. The students must match up each keyword to its definition. You may wish to take time to discuss the students' answers before revealing them.

Main Activities

Solving Linear Equations with an Unknown on One Side

Slides 4 and 5 provide a visual representation of solving equations to put the objective into context for the students. For each slide, you should encourage students to discuss the question in pairs. Following a whole class discussion on students' different methods, algebra is introduced to bridge the gap between the visual representation and the objective of solving equations.

Slides 6-8 provide a detailed walk-through of how to solve linear equations with an unknown on one side. Students are encouraged to analyse an equation by asking them to describe what the equation is asking, followed by introducing 'The Funnel Method' to solve equations. You should highlight and emphasise how using the inverse of something will cause it 'disappear' on that particular side. For example, on **slide 6** when the 4 is subtracted, the left-hand side becomes a + 0, so just a. It is important that this is made clear to students so they understand the process thoroughly.

The practice questions on **slide 9** provide an opportunity for the students to apply what they have been told so far. Allow students time to complete this independently on whiteboards or in books. A clear method of how and why they've obtained their answer should be seen. Encourage verbal reasoning with students so they can use, apply and reason using their maths in preparation for problem-solving, for example, 'Why has that moved to the other side?'

Solving Equations Involving Brackets and Fractions

Use **slides 10 and 11** in the same way as the previous activities and focus on solving linear equations involving brackets and fractions. Each step can be revealed with a single click so you are able to work through the examples at a pace which suits the needs of your class. Ensure you continually check for understanding of how and why the equation has changed especially because the steps are trickier than before and can easily be done incorrectly.

Slide 12 has three practice questions on the slide. These can be done independently whilst you coach students, where appropriate. Students should offer their solutions and justify and explain their method where necessary. Encourage this by asking questions such as 'Why did you do that?' and 'Can you prove that your answer is correct?'.

Following these activities, you can use the various differentiated activity sheets to help students consolidate their understanding. Sheets available include Solving Linear Equations with an Unknown on One Side and as an Extension Sheet, Solving Linear Equations Involving Brackets and Fractions. These activity sheets are differentiated through scaffolding. Additionally, the Solving Linear Equations Worded Problems will encourage students to create and solve their own linear equations.

Finally, the following loop cards are also available:

- Solving Linear Equations with an Unknown on One Side Loop Cards
- Solving Linear Equations Involving Brackets and Fractions Loop Cards

Plenary

The plenary requires students to apply their understanding of solving linear equations to a geometry problem which will require them to form and then solve an equation to find the value of *x*. You should give little guidance or scaffold at this point to encourage students to talk to each other and problem solve. Students could work in pairs or small groups on the plenary followed by a whole class discussion regarding the methods used to get to the answer. A clear and confident explanation of the process of finding the value of *x* should be heard.

Solving Linear Equations Worded Questions

Use your knowledge of how to solve linear equations to set up and then solve the equations for the following questions.

1. I think of a number. I multiply it by 8 and subtract 3. If my answer is 45, what number did I start with?

2. The mean average of 3 numbers is 12. If one number is 5 and the other is 11, write and solve an equation to find the third number.

3. There are exactly *a* apples in a bag. I buy 4 bags of apples. I have 72 apples altogether. How many apples are in each bag?

4. Holly has *b* books. She sells half of her books then buys 14 more. She now has 68 books. How many books did Holly have originally?

5. A cycle shop rents bicycles for £20 plus a charge of £4 per hour. Scott paid £52. For how long did he rent the bicycle?

6. The sum of 3 consecutive numbers is 102. What is the smallest number?

7. The length of a football field is 30 metres greater than its width. If the perimeter of the field is 340 metres, find the width of the field.

8. Jane bought a magazine for £2.20 and 3 bags of the same sweet. She spent £3.40. How much did each bag of sweets cost?

Extension

If the area of this rectangle is 86 cm^2 , what is the value of x?

(3*x* - 1)cm

4cm

Solving Linear Equations Worded Questions Answers

- 1. 8x 3 = 45 8x = 48 x = 66 was the starting number.
- 2. $\frac{5 + 11 + x}{3} = 12$ $\frac{16 + x}{3} = 12$ 16 + x = 36x = 20The third number is 20.
- 4*a* = 72
 a = 18
 There are 18 apples in each bag.
- 4. $\frac{b}{2}$ + 14 = 68 $\frac{b}{2}$ = 54 b = 108 Holly had 108 books originally.
- 5. 20 + 4h = 52
 4h = 32
 h = 8
 He rented the bicycle for 8 hours.
- 6. n + (n + 1) + (n + 2) = 102 3n + 3 = 102 3n = 99 n = 3333 is the smallest number.

- 7. x + (x + 30) + x + (x + 30) = 340
 4x + 60 = 340
 4x = 280
 x = 70
 The width of the field is 70 metres.
- 8. 2.20 + 3b = 3.40
 3b = 1.20
 b = 0.40
 Each bag of sweets was 40p.

Extension

4(3x - 1) = 86 12x - 4 = 86 12x = 90x = 7.5cm

Solving Linear Equations with an Unknown on One Side

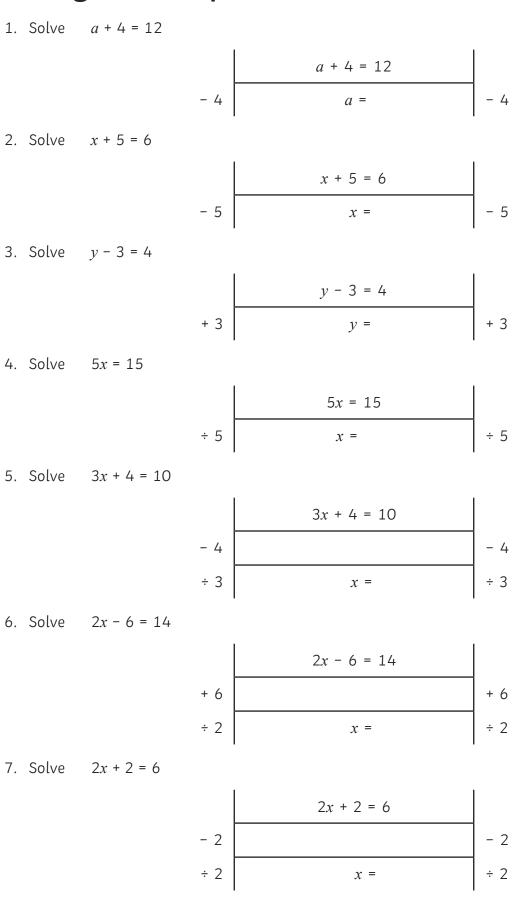
| 1. Solve | <i>a</i> + 4 = 12 |
|----------|-------------------|
| | |
| 2. Solve | x + 5 = 6 |
| | |
| 3. Solve | <i>y</i> - 3 = 4 |
| | |
| 4. Solve | 5 <i>x</i> = 15 |
| | |
| 5. Solve | 3x + 4 = 10 |
| | |
| | |
| 6. Solve | 2x - 6 = 14 |
| | |
| | |
| 7. Solve | 2x + 2 = 6 |
| | |
| | |
| | |

| 8. | Solve | 2a + 3 = -3 | | | |
|-----|-------|---------------------|--|--|--|
| | | | | | |
| | | | | | |
| 9. | Solve | 6x + 4 = 10 | | | |
| | | | | | |
| | | | | | |
| 10. | Solve | 4x + 3 = 9 | | | |
| | | | | | |
| | | | | | |
| 11. | Solve | 4 <i>x</i> - 6 = 22 | | | |
| | | | | | |
| | | | | | |
| 12. | Solve | 2 <i>k</i> - 7 = 11 | | | |
| | | | | | |
| | | | | | |

Solving Linear Equations with an Unknown on One Side **Answers**

- 1. *a* = 8
- 2. x = 1
- 3. *y* = 7
- 4. x = 3
- 5. x = 2
- 6. *x* = 10
- 7. x = 2
- 8. a = -3
- 9. x = 1
- 10. x = 1.5
- 11. *x* = 7
- 12. *k* = 9

Solving Linear Equations with an Unknown on One Side



8. Solve 2a + 3 = -3

$$2a + 3 = -3$$
- 3
- 3
- 2
$$a = -3$$
- 3

9. Solve 6x + 4 = 10

10. Solve 4x + 3 = 9

11. Solve 4x - 6 = 22

12. Solve
$$2k - 7 = 11$$

$$\begin{array}{c|c} = 11 \\ & & 2k - 7 = 11 \\ & + 7 \\ & \div 2 \\ & & k = \\ & & \div 2 \end{array}$$

Solving Linear Equations with an Unknown on One Side **Answers**

- 1. *a* = 8
- 2. x = 1
- 3. *y* = 7
- 4. x = 3
- 5. x = 2
- 6. *x* = 10
- 7. x = 2
- 8. a = -3
- 9. x = 1
- 10. x = 1.5
- 11. *x* = 7
- 12. *k* = 9

Solving Linear Equations with an Unknown on One Side

1. Solve
$$a + 4 = 12$$

 $a + 4 = 12$
 $a = -$
2. Solve $x + 5 = 6$
 $x + 5 = 6$
 $x + 5 = 6$
 $x = -$
3. Solve $y - 3 = 4$
 $y - 3 = 4$
 $y = -$
 $x = -$
4. Solve $5x = 15$
 $x = -$
 $x = -$
5. Solve $3x + 4 = 10$
 $-$
 $x = -$
6. Solve $2x - 6 = 14$
 $+$
 $x = -$
 $x = -$

8. Solve 2a + 3 = -3

$$2a + 3 = -3$$

$$-$$

$$\div$$

$$a =$$

$$\div$$

9. Solve 6x + 4 = 10

10. Solve 4x + 3 = 9

$$\begin{array}{c|c} & 4x + 3 = 9 \\ \hline \\ \div & x = & \div \end{array}$$

11. Solve 4x - 6 = 22

$$4x - 6 = 22$$

$$+$$

$$x =$$

12. Solve
$$2k - 7 = 11$$

Solving Linear Equations with an Unknown on One Side **Answers**

- 1. *a* = 8
- 2. x = 1
- 3. *y* = 7
- 4. x = 3
- 5. x = 2
- 6. *x* = 10
- 7. x = 2
- 8. a = -3
- 9. x = 1
- 10. x = 1.5
- 11. *x* = 7
- 12. *k* = 9

Linear regulations
Under regulations
Under regulationsLinear regulations
$$x = 1$$
Linear regulations
 $4x + 3 = 9$ Linear regulations
Under regulations
Under regulations
Under regulations
Under regulations
Under regulations
Under regulations
 $x = 1.5$ Linear regulations
 $4x - 6 = 22$ Linear regulations
 $2k - 7 = 11$ Linear regulations
Under regulations
Under regulations
Under regulations
Under regulations
Under regulations
 $x = 1.5$ Linear regulations
 $4x - 6 = 22$ Linear regulations
 $2k - 7 = 11$ Linear regulations
Under row Dive Side
Under row Dive SideLinear regulations
 $2k - 7 = 11$ Linear regulations
 $2k - 7 = 7$ Linear regulations
Under row Dive Side
Under row Dive SideLinear regulations
 $2k - 7 = 7$ Linear regulations
 $2k - 7 = 7$ Linear regulations
Under row Dive Side
 $x = 14$ $4x = 24$ Linear regulations
 $2k - 7 = 7$ Linear regulations
Under row Dive Side
 $x = 14$ $4x = 24$ Linear regulations
 $2k - 7 = 10$

Liner Equation
Lower equation
$$y = 4$$
 $2a - 3 = 4$ Liner Equation
 $a = 3.5$ $2m + 4 = 12$ Liner Equation:
Unknown on One Side $a = 3.5$ $2m + 4 = 12$ $m = 4$ $6k + 3 = 21$ $a = 3.5$ $2m + 4 = 12$ $m = 4$ $6k + 3 = 21$ $a = 3$ $8x - 10 = 30$ $x = 5$ $5y + 1 = 11$ $y = 2$ $2t - 7 = 3$ $x = 5$ $5y + 1 = 11$ $y = 2$ $2t - 7 = 3$ $t = 5$ $2s = 18$ $s = 9$ $2a + 5 = 13$

Linear Equations
Unknown on One SideLinear Equations
Unknown on One SideLinear Equations
Unknown on One Side
$$b = 7$$
 $2m + 6 = 11$ Linear Equations
Unknown on One SideLinear Equations
Unknown on One SideLinear Equations
Unknown on One Side $b = 7$ $2m + 6 = 11$ Linear Equations
Unknown on One SideLinear Equations
Unknown on One SideLinear Equations
Unknown on One Side $k = 2$ $8y - 7 = 49$ Linear Equations
Unknown on One Side $y = 7$ $2t + 8 = 20$ $t = 6$ End

Linter Equations
United on the Side
$$s + 5 = 6$$
Linter Equations
universe on the Side $y - 3 = 4$ Start $s + 5 = 6$ $x = 1$ $y - 3 = 4$ Linter Equations
Universe on the Side $x = 10$ $a + 4 = 12$ $a = 8$ $5x = 15$ Linter Equations
Universe on the Side $a = 8$ $5x = 15$ $5x = 15$ Linter Equations
Universe on the Side $a = 8$ $5x = 15$ Linter Equations
Universe on the Side $x = 3$ $3x + 4 = 10$ $x = 2$ $2x - 6 = 14$ Linter Equations
Universe on the Side $x = 10$ $2b + 2 = 6$ $b = 2$ $2a + 3 = -3$ Linter Equations
Universe on the Side $b = 2$ $2a + 3 = -3$

Linear Equations
Under of the side
$$6x + 4 = 10$$
Linear Equations
 $x = 1$ $4x + 3 = 9$ Linear Equations
Under on the side $x = 1$ $4x + 3 = 9$ Linear Equations
Under on the side $x = 1.5$ $4x - 6 = 22$ $x = 7$ $2k - 7 = 11$ Linear Equations
Underson on the side $x = 7$ $2k - 7 = 11$ $x = 7$ $2k - 7 = 11$ Linear Equations
Underson on the side $x = 4$ $x - 7 = 7$ $x = 4$ $x - 7 = 7$ Linear Equations
Underson on the side $x = 14$ $4x = 24$ $x = 6$ $y + 6 = 10$

Linear squattion
Understand on the Side
$$2a - 3 = 4$$
Linear squattion
Understand on Othe Side
 $a = 3.5$ $2m + 4 = 12$ Linear squattion
Understand on One Side $a = 3.5$ $2m + 4 = 12$ Linear squattion
Understand on One Side $a = 3.5$ $2m + 4 = 12$ Linear squattion
Understand on One Side $a = 3.5$ $2m + 4 = 12$ Linear squattion
Understand on One Side $a = 3.5$ $2m + 4 = 12$ Linear squattion
Understand on One Side $b = 3$ $b = 3$ Linear squattion
Understand on One Side $b = 3$ $b = 3$ Linear squattion
Understand on One Side $b = 3$ $b = 3$ Linear squattion
Understand on One Side $b = 3$ $b = 3$ Linear squattion
Understand on One Side $y = 2$ $2t - 7 = 3$ Linear squattions
Understand on One Side $y = 2$ $2t - 7 = 3$ Linear squattions
Understand on One Side $b = 3$ $b = 3$ Linear squatters
Understand on One Side $y = 2$ $2t - 7 = 3$ Linear squatters
Understand on One Side $b = 3$ $b = 3$ Linear squatters
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Linear Equations
Unknown on One SideLinear Equations
Unknown on One SideLinear Equations
Unknown on One Side
$$b = 7$$
 $2m + 6 = 11$ Linear Equations
Unknown on One SideLinear Equations
Unknown on One SideLinear Equations
Unknown on One Side $b = 7$ $2m + 6 = 11$ Linear Equations
Unknown on One SideLinear Equations
Unknown on One Side $k = 2$ $8y - 7 = 49$ Linear Equations
Unknown on One Side $y = 7$ $2t + 8 = 20$ $t = 6$ End