

twink



Solve Simple One-Step Equations



Diving into Mastery Guidance for Educators

NAM

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Aim

• Express missing number problems algebraically.

MAN







Compare the value of x and y in these equations using <, > and =.

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Solve Simple One-Step Equations

Deeper

Is the value of the letter x the same in both equations? Prove your answer and explain your reasoning.

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x + 52.5 = 110	x + 52.5 = 110	
	x	= 110 - 52.5
	x	= 57,5

$$3x = 172.5$$

 $3x = 172.5$
 $x = 172.5 \div 3$
 $x = 57.5$

The value of x is the same in both equations.

Solve Simple One-Step Equations

Deeper

In balancing this equation, x = 85.

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I can balance this equation using the expression 100 + 60

Do you agree with Nishi?

Nishi is incorrect. If x = 85 then 2x = 170, 100 + 60 = 160 which doesn't balance.

Write three different expressions that will balance this equation.

Many answers are possible, including 200 – 30, 190 – 20, 17 × 10



Deepest

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What could the answer to this equation be? How many possible answers are there?

The value of x is a two-digit even number between 65 and 80.



x + 10.5 = -

66 + 10.5 = 76.5 68 + 10.5 = 78.5 70 + 10.5 = 80.5 72 + 10.5 = 82.5 74 + 10.5 = 84.5 76 + 10.5 = 86.578 + 10.5 = 88.5



Deepest

The total height of all four sunflowers is 2.1m. Sunflower A and B are the same height. Find the height of sunflower C.

66cm

В

NAM



Α

35

+

×

Sunflower C = 210 - (66 + 66 + 49) 210 - 181 = 29cm

C .

80 - x =80 - 31 = 49Sunflower D = 49cm

D

X

80

Solve Simple One-Step Equations

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Dive in by completing your own activity!



Need Planning to Complement this Resource?

National Curriculum Aim

Express missing number problems algebraically.

For more planning resources to support this aim, click here.





Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.

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