## Varied Fluency <br> Step 7: One-Step Equations

## National Curriculum Objectives:

Mathematics Year 6: (6A1) Express missing number problems algebraically

## Differentiation:

Developing Questions to support forming and solving one-step equations. Using all four operations and whole numbers.
Expected Questions to support forming and solving one-step equations. Using all four operations, whole numbers, with some decimals and fractions.
Greater Depth Questions to support forming and solving one step equations. Using all four operations, whole numbers, fractions, decimal and negative numbers.

## More Year 6 Algebra resources.

Did you like this resource? Don't forget to review it on our website.




| 9a. Circle the equation that is the odd one out. $\begin{gathered} a^{2}=30 \frac{1}{4} \\ 25.5 \div 10=a \\ 12 a=30.6 \end{gathered}$ | 9b. Circle the equation that is the odd one out. $\begin{aligned} & y \times 0.5=27 \frac{1}{2} \\ & -45+100=y \\ & 25 y=137.5 \end{aligned}$ |
| :---: | :---: |
| 10a. Which representation matches the expression $2 m+0.5$ ? <br> A. $\square$ , <br> B. $\square$ $\square$ <br> C. $\square$ $\square$ | 10b. Which representation matches the expression $n \div 1$ ? <br> A. $\square$ <br> B. $\square$ <br> c. $\square$ $\square$ |
| 11a. Compare the value of the letters in each equation using <, > or $=$. $c^{2}=169$ $\square$ $d-0.5=2$ $\square$ $e-10=-7.5$ | 11b. Compare the value of the letters in each equation using $<,>$ or $=$. <br> $d \times 8=72$ $\square$ $-5+e=2$ $\square$ $f \div 2=3.5$ |
| 12a. What numbers would balance the equations below? <br> A. $c \div 8=6.5$ <br> B. $b=81 \div b$ <br> C. $7 n=1.4$ | 12b. What numbers would balance the equations below? <br> A. $4 n=23$ <br> B. $r-1.5=-1$ <br> C. $c=49 \div c$ |

## Developing

1a. 11a=33
2a. A
3a. >, <
4a. $p=29 ; d=18 ; a=18$

## Expected

5a. $12 a=3.6$
6a. B
7a. <, =
8a. $c=7.5 ; a=17.5 ; b=4$

## Greater Depth

9a. $a^{2}=30 \frac{1}{4}$
10a. C
11a. $>,=$
12a. $c=52 ; b=9 ; n=0.2$

## Developing

1b. $200 \div a=40$
2b. C
3b. <, >
4b. $b=11 ; c=4 ; a=40$

## Expected

5b. $b+3=25$
6b. A
7b. <, >
8b. $m=8 ; n=40.5 ; d=22.5$

## Greater Depth

9b. $25 y=137.5$
10b. C
11b. $>$, $=$
12b. $n=5.75 ; r=0.5 ; c=7$

