

Solving Equations with Brackets/Fractions and Simultaneous Equations

Year 8 · Algebra · y8-alg-solve-linear

Name: _____

Date: _____

Class: _____

Score: ____ / ____

Instructions

Answer every question in Practice. Try the Challenge section once Practice is complete. 10 questions in total.

Practice

1. Find the solution to: $2(x + 3) = 16$.

2. Work out the answer to: $x/3 + 2 = 7$.

3. Solve: $3(x - 2) = 15$.

4. Find the solution to: $(x + 1)/4 = 3$.

5. A number is added to 5, and that bracketed sum is doubled: $2(x + 5) = 26$. Find x.

6. Expand the bracket first, before solving. Solve: $4(x - 3) = 20$.

7. Multiply both sides by the denominator to clear the fraction. Solve: $x/5 = 6$.

8. Work out the answer to: $5x - 3 = 22$.

Challenge

1. Find the solution to: $3(x + 2) - 2(x - 1) = 14$.

2. Solve the simultaneous equations: $2x + y = 11$ and $x - y = 1$. Give x and y separated by a comma.
