

LCOL Algebra 7 — Fractions 2

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How to use this sheet: these are the exact questions worked in this tutorial, in order. Try each one yourself first — the time it is posed in the video is shown, so you can pause before Paul solves it. Final answers are at the back; the full method is in the video.

Worked examples (in the video)

Example 1. Solve $(3x + 3)/5 = (2x + 1)/3$ (common-denominator way and multiply-across way — same line either way). (worked 00:13-07:58).

Example 2. Three fractions: solve $(14x + 35)/3 - (44x + 11)/9 = (10x + 50)/7$. (worked 07:58-13:47).

Questions

Q1. Solve $\frac{2x-4}{2} = \frac{10x-16}{11}$.

Posed at 14:47 in the tutorial.

Q2. Solve $\frac{20x-15}{3} - \frac{14x-6}{12} = \frac{2x+42}{4}$.

Posed at 17:34 in the tutorial.

Q3. Solve $\frac{1}{3}(x - 5) = \frac{1}{5}(2x - 1)$ (the same as $(x - 5)/3 = (2x - 1)/5$).

Posed at 20:43 in the tutorial.

Answers

Final answers only — pause the video and check yourself; the worked method is in the tutorial.

Example 1. $x = 4$

Example 2. $x = 2$

Q1. $x = 6$

Q2. $x = 3$

Q3. $x = -22$

Overlaps with these tutorials

LCOL Algebra 5 — Introduction to Equations and **Algebra 6 — Fractions 1**. This lesson is exactly those two combined — do both first.

LCOL Algebra 8 — Factorising 1. The start of factorising. Comes next.