

JCHL Algebra 6 — Fractions 1

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ON THE JC PAST PAPERS · 2024 JCHL Q11(d) — 15 marks · 2022 JCHL Q9(c) — 10 marks

How to use this worksheet: 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. Numbers only: $\frac{3}{4} + \frac{7}{5}$ (common denominator 20). (worked 00:33-04:03).

Example 2. With an x on top: $\frac{(3x + 5)}{2} - \frac{5}{3}$. (worked 04:17-07:11).

Example 3. Three fractions: $\frac{(5x - 2)}{5} - \frac{2}{3} + \frac{(2x - 1)}{4}$. (worked 07:15-10:41).

Questions

Q1. Simplify $\frac{5}{7} + \frac{8}{5}$.

Posed at 11:20 in the tutorial.

Q2. Simplify $\frac{3x+1}{8} + \frac{5x-2}{4}$.

Posed at 15:26 in the tutorial.

Q3. Simplify $\frac{3x-5}{9} + \frac{2x-15}{5} - \frac{4x-3}{3}$.

Posed at 16:57 in the tutorial.

Answers

You can find the final answers to these questions below — pause the video and check yourself; the worked method is in the tutorial.

Example 1. $\frac{43}{20}$

Example 2. $\frac{9x+5}{6}$

Example 3. $\frac{90x-79}{60}$

Q1. $\frac{81}{35}$

Q2. $\frac{13x-3}{8}$

Q3. $\frac{-27x-115}{45}$

Overlaps with these tutorials

Builds on: Algebra 5 (equations). The same common-denominator method returns with x's in later Fractions lessons.

Next: Algebra 7 — Factorising 1.