

JCHL Algebra 4 — Evaluating Expressions

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ON THE JC PAST PAPERS · 2024 JCHL Q11(a) — 10 marks · 2022 JCHL Q9(a) — 5 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)

Worked example. $x = -2$ and $y = 3$ — evaluate $2x^2 + 6xy$ (swap the letters in, each in a bracket, then BIMDAS). (*worked 00:14–02:23*).

Questions

Q1(a). $x = -6$, $y = -1$: evaluate $3x^2 + 14y^2x$.

Posed at 03:52 in the tutorial.

Q1(b). $x = -6$, $y = -1$: evaluate $2x - 7y + 14$.

Posed at 04:35 in the tutorial.

Q2(i). $a = -1$, $b = 3$: evaluate $2a^3 - b^2$.

Posed at 04:54 in the tutorial.

Q2(ii). $a = -1$, $b = 3$: evaluate $2a - 7ab$.

Posed at 05:20 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.

Worked example. $2(-2)^2 + 6(-2)(3) = 8 - 36 = -28$

Q1(a). $108 - 84 = 24$

Q1(b). $-12 + 7 + 14 = 9$

Q2(i). $-2 - 9 = -11$

Q2(ii). $-2 + 21 = 19$

Overlaps with these tutorials

Builds on: Algebra 1 (signs) and Algebra 3 (multiplying).

Next: Algebra 5 — Introduction to Equations.