

LCOL Algebra 1 — Signs

LCOL · Algebra | Tutorial questions & answers | gktuition.ie

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. Multiply -2×-3 . (worked 00:33-00:58).

Example 2. Multiply $2 \cdot 4$ (the dot means multiply). (worked 01:41-01:50).

Example 3. Multiply $-2(6)$ (a number beside a bracket means multiply). (worked 02:15-02:23).

Example 4. Multiply $2(-6)$. (worked 02:26-02:35).

Example 5. Divide $-8 \div -4$. (worked 03:18-03:31).

Example 6. Divide $10 \div 5$. (worked 03:31-03:40).

Example 7. Divide $6 \div -3$. (worked 03:43-03:52).

Example 8. Divide $-6 \div 3$. (worked 03:55-04:09).

Questions

Q1(a). Evaluate $-2(x)$.

Posed at 04:25 in the tutorial.

Q1(b). Evaluate $3(y)$.

Posed at 04:25 in the tutorial.

Q1(c). Evaluate $5(-xy)$.

Posed at 04:25 in the tutorial.

Q1(d). Evaluate $-12(-2)$.

Posed at 04:25 in the tutorial.

Q1(e). Evaluate $26 \div -4$.

Posed at 04:25 in the tutorial.

Q1(f). Evaluate $-\frac{30}{15}$.

Posed at 04:25 in the tutorial.

Answers

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

Example 1. Same signs → plus: $+6$

Example 2. 8

Example 3. Different signs → minus: -12

Example 4. -12

Example 5. Same signs → plus: $+2$

Example 6. $+2$

Example 7. Different signs → minus: -2

Example 8. -2

Q1(a). $-2x$

Q1(b). $+3y$

Q1(c). $-5xy$

Q1(d). $+24$

Q1(e). $-\frac{13}{2}$

Q1(f). -2

Overlaps with these tutorials

LCOL Algebra 2 — Grouping Like Terms. Uses these plus/minus rules to add and subtract terms — and shows where the multiply rule must NOT be used. Do this one next.