ZiloAcademy

✨ Grade 10 Maths — Problem Solving & Technology ✨

Name: Demo **Date:** 26/11/2026

1. A room is 4 m × 4 m with walls 2.5 m high. Paint covers 12 m² per litre and comes in 4 L tins. How many tins are needed for 2 coats of the walls (ignore doors and windows)?

2. An item is $240 before GST. It is discounted by 20%, then 10% GST is added. What is the final price? (dollars, 2 decimal places)

3. A room is 6 m × 3 m with walls 2.5 m high. Paint covers 10 m² per litre and comes in 4 L tins. How many tins are needed for 2 coats of the walls (ignore doors and windows)?

4. Graphing software shows $y = x^2 - 2x - 8$. Where does it cross the x-axis? Check algebraically. (format like -2,6 — smaller first)

5. An item is $60 before GST. It is discounted by 20%, then 10% GST is added. What is the final price? (dollars, 2 decimal places)

6. An item is **$170** before GST. It is discounted by **10%**, then **10%** GST is added. What is the final price? (dollars, **2** decimal places)

7. An item is **$180** before GST. It is discounted by **20%**, then **10%** GST is added. What is the final price? (dollars, **2** decimal places)

8. A room is **4** m × **3** m with walls **2.4** m high. Paint covers **16** m² per litre and comes in **4** L tins. How many tins are needed for **2** coats of the walls (ignore doors and windows)?

9. An item is **$290** before GST. It is discounted by **20%**, then **10%** GST is added. What is the final price? (dollars, **2** decimal places)

10. Graphing software shows $y = x^2 + 3x - 18$. Where does it cross the x-axis? Check algebraically. (format like -2,6 — smaller first)