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## National 5 Maths Simplifying Surds

SQA past paper and specimen paper  
questions and answers by topic

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National 5 Maths  
SQA 2014 Paper 1  
Question 8

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Express  $\sqrt{40} + 4\sqrt{10} + \sqrt{90}$  as a surd in its simplest form.

3

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Answer:

$$9\sqrt{10}$$

National 5 Maths  
SQA 2021 Paper 1  
Question 9

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Express  $\sqrt{50} + \sqrt{45} - \sqrt{2}$  in its simplest form.

3

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Answer:

$$4\sqrt{2} + 3\sqrt{5}$$

**National 5 Maths**  
**SQA 2022 Paper 1**  
**Question 13**

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Expand and simplify  $\sqrt{10}(\sqrt{10} - \sqrt{2}) + 8\sqrt{5}$ .

3

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Answer:

$$10 + 6\sqrt{5}$$