

**National 5 Maths**  
**SQA 2019 Paper 1**  
**Question 8**

National 5 Maths

**Maths.scot**



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John bought 7 bags of cement and 3 bags of gravel.

The total weight of these bags was 215 kilograms.

(a) Write down an equation to illustrate this information.

1

Shona bought 5 bags of cement and 4 bags of gravel.

The total weight of her bags was 200 kilograms.

(b) Write down an equation to illustrate this information.

1

(c) Calculate the weight of one bag of cement and the weight of one bag of gravel.

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Answers:

Choosing  $c$  for the weight of a bag of cement and  $g$  for the weight of a bag of gravel:

(a)  $7c + 3g = 215$

(b)  $5c + 4g = 200$

(c) Bag of cement: 20 kg. Bag of gravel: 25 kg.