Learner 3: PC 1.1 and 1.2

Learner 3: Meets Requirements
Intended for teacher use only

NZQA
NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MATAURANGA O AOTEAROA

Practical observation sheet – for optional use

Unit 26627: Use measurement to solve problems Level 1, Credits 3, Version 2

Learner name and NSN: _____ Date of observation: 4 8/14

Observer name and relationship to learner: _____ Tutor _____

Description of situation in which problem occurred: *e.g. Cert Hospitality - menu planning module (costs of different menu options)*	Problem being solved: *e.g. How much waste will there be from 1 kg unprocessed potatoes for pommes parisienne?*
Agriculture Academy Training.	How much grass seed is needed? ①

Measuring equipment selected & used: *e.g. Kitchen scales*

Any preparation of equipment done: *e.g. Zeroed scales*

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② **Outcome 1: Use measurement to solve problems**

I observed the learner take the following measurements:

Record what was measured, and the actual measurement(s) taken.
e.g. Weighed unprocessed potato (370 g); prepared potato for pommes parisienne; weighed waste potato (135 g).

███ paced out length and width of area to be sown. Measured 1 pace to be about 0.8m (used metre ruler). Note: a high degree of accuracy not required. ③ ④

The required level of accuracy with the measurements was: +/- _____ *e.g. +/- 10 g*

Required level of accuracy in measurements taken was met: Yes / No

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② **I observed the learner make the following calculations, derived from the measurements s/he took:**

Record what was calculated (including the actual figures calculated) and the result.
e.g. 1 kg = 1000 g; Calculated how many times weight of unprocessed potato goes into 1 kg (1000 g/370 g = 2.7 rounded); multiplied waste weight by this figure (135 g x 2.7 = 364.5 g)

Calculated area to be sown (Converted paces to metres). Used coverage rate of 5kg/100m² to calculate amount of grass seed needed – [see Learner Work]

The learner's solution to the problem was: (record their solution) *e.g. About 365 g waste per 1 kg unprocessed potato.*

28.3 kg of grass seed

Did the learner judge the solution they reached to be reasonable? (Yes) No
Comment: *e.g. Yes. Learner reversed initial calculation to check factor multiplying by, then re-did calculation of waste to check.*
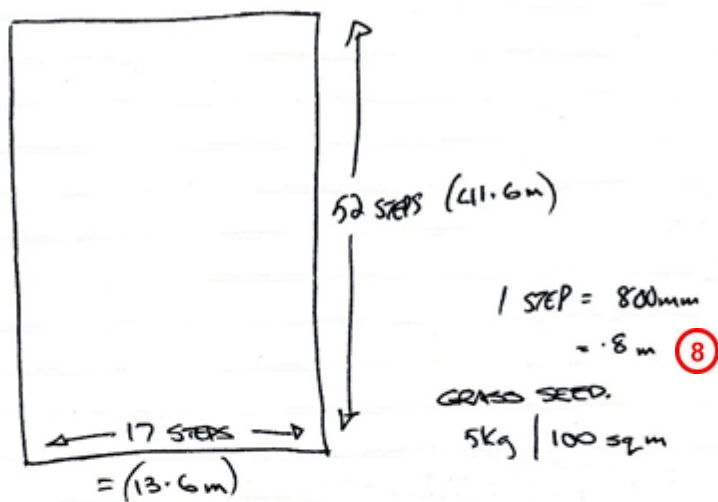
Double checked measurement of pace length and calculation.

The learner:	
✓	selected the measuring equipment and units of measurement to use
✓	selected and used his/her own methods to solve the problem(s)
✓	took the measurements him/herself
✓	did the calculations him/herself
✓	solved the problem(s) without undue assistance.
/	This evidence was generated for a purpose other than the assessment of this standard.

Observer signature: _____ Date: 4 8 14 ⑤

GRASS SEED 26627

Learner Work - Grass Seed Problem (see observation sheet)

52 steps (41.6m)

1 STEP = 800mm
= .8 m ⑧

GRASS SEED.
5kg | 100 sqm

17 STEPS
= (13.6m)

13.6m × 41.6m = 565.76 sqm
= 566 APPROX ⑥

(GRASS SEED
REQUIRED.) = 5.66 × 5kg
= 28.3 kg. ⑦