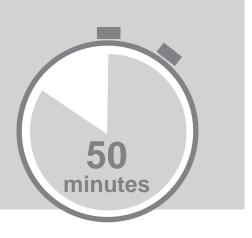


STRONG STUDENT SAMPLE

## Mathematics Foundation course

**Externally set task 2017** 





### Before starting this task **check** that you have:

- black or blue pen, 2B pencils
- sharpener
- eraser
- highlighters
- correction fluid/tape
- a calculator of the type used in class assessments
- ruler
- one double-sided A4 page of notes if used in class assessments.

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Total time for the task:

50 minutes

Total marks:

24 marks

Weighting:

15% of the school mark

#### Question 1

(7 marks)

The Rottnest Channel Swim from Cottesloe Beach to Rottnest Island is approximately 19.6 km long.

(a) Joe experienced an injury a quarter of the way into the race and had to be rescued. **Estimate** how far he had swum before he had to be rescued. Give your answer to the nearest kilometre. (2 marks)

19.6=4=4.9km=5km

Q Voller = 1

(b) After eight hours of swimming, Sam had completed 12.78 kilometres. Ben had completed 12.79 kilometres of the swim. What was the distance between them? (3 marks)

12.78km-12.79km=-0.01

(c) Chloe has swum in the race seven times. What is the total distance she has swum?

Show your workings, i.e. the steps you used to arrive at your answer. (2 marks)

ward attended and and part

19.6km X7 = 137.2km

Question 2 (6 marks)

Keith owns a farm in Western Australia. This season he has planted 25 hectares of wheat.

(a) One hectare of land on Keith's farm produces 1.57 tonnes of wheat. How much wheat does the farm produce in total in a season? (3 marks)

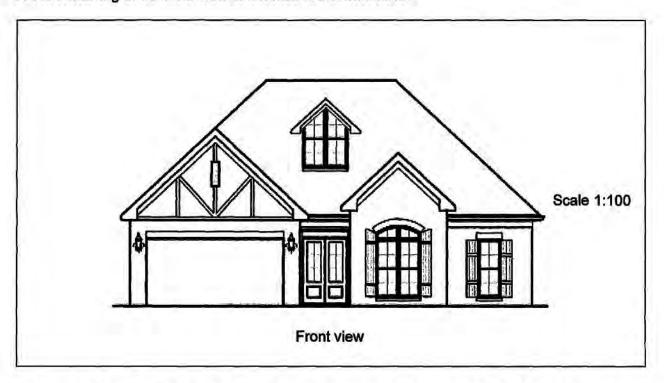
25 ×1.57 = 39.25 Lones

(b) Keith needs to take his wheat to the local grain silo for weighing. If Keith's truck can only carry six tonnes of wheat at a time, how many trips will he make to the silo? Show your workings, i.e. the steps you used to arrive at your answer. (3 marks)

39.25 = 6=6.54 = 7 erips

Question 3 (3 marks)

A scale drawing of the front view of a house is shown below.



Calculate the actual height of the house in centimetres. Show your workings, i.e. the steps you used to arrive at your answer.

6x 100 = 600cm

This is a seating plan of a theatre.	Use the seating plan to answer the questions that follow on
page 7.	

For copyright reasons this image cannot be reproduced in the online version of this document.

Question 4

(8 marks)

If you are sitting in seat P14, are you sitting in the Stalls, the Dress Circle or the Upper (a) Circle? Stalls

(b) How many seats are there in row D of the upper circle? (1 mark)

40 Seals

How much will you pay for a ticket for seat D12 in the Dress Circle? (c)

(2 marks)

28.10/E

(d) If you buy tickets for seats K10, K11 and K12, how much will you pay in total? Show your workings, i.e. the steps you used to arrive at your answer. 320.26

80000 K10 = 986.56

C8 10/4 = 1/3/

C8.10/faterodome= 11/

### **ACKNOWLEDGEMENTS**

Question 4 His Majesty's Theatre seating plan [Image]. (n.d.). Retrieved May, 2016, from http://waballet.com.au/payment/images/seatingplan\_hismajestys.gif