
Functional Skills Certificate

FUNCTIONAL MATHEMATICS

Level 2

Data Book (Examination)

Insert

Instructions

- This copy of the Data Book is for use in the examination. It should **not** be given to candidates in advance.

Advice

- This book will not be collected in for marking. Ensure that all working that you wish to have marked is written in the spaces provided in the question/answer book.

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Data Sheet for Athletics

Here is some information about events at an athletics meeting.

4 by 100 m relay

There are 4 runners in each team.

Each runner runs part of the race for their team.

The first team to finish wins.

Heptathlon (7 events)

Athletes score points for each event.

The points for each event are given in tables.

The athlete with the highest points total for the 7 events wins.

Here are parts of the tables for the **200 metres** and the **long jump**.

200 metres

Time (seconds)	Points	Time (seconds)	Points
26.31	770	26.51	753
26.33	769	26.52	752
26.34	768	26.54	751
26.35	767	26.55	750
26.36	766	26.56	749
26.37	765	26.57	748
26.38	764	26.58	747
26.40	763	26.59	746
26.41	762	26.61	745
26.42	761	26.62	744
26.43	760	26.63	743
26.44	759	26.64	742
26.45	758	26.65	741
26.47	757	26.67	740
26.48	756	26.68	739
26.49	755	26.69	738
26.50	754	26.70	737

Long jump

Jump (metres)	Points	Jump (metres)	Points
5.40	671	5.27	634
5.39	668	5.26	631
5.38	665	5.25	628
5.37	663	5.24	626
5.36	660	5.23	623
5.35	657	5.22	620
5.34	654	5.21	617
5.33	651	5.20	614
5.32	648	5.19	612
5.31	645	5.18	609
5.30	643	5.17	606
5.29	640	5.16	603
5.28	637	5.15	601

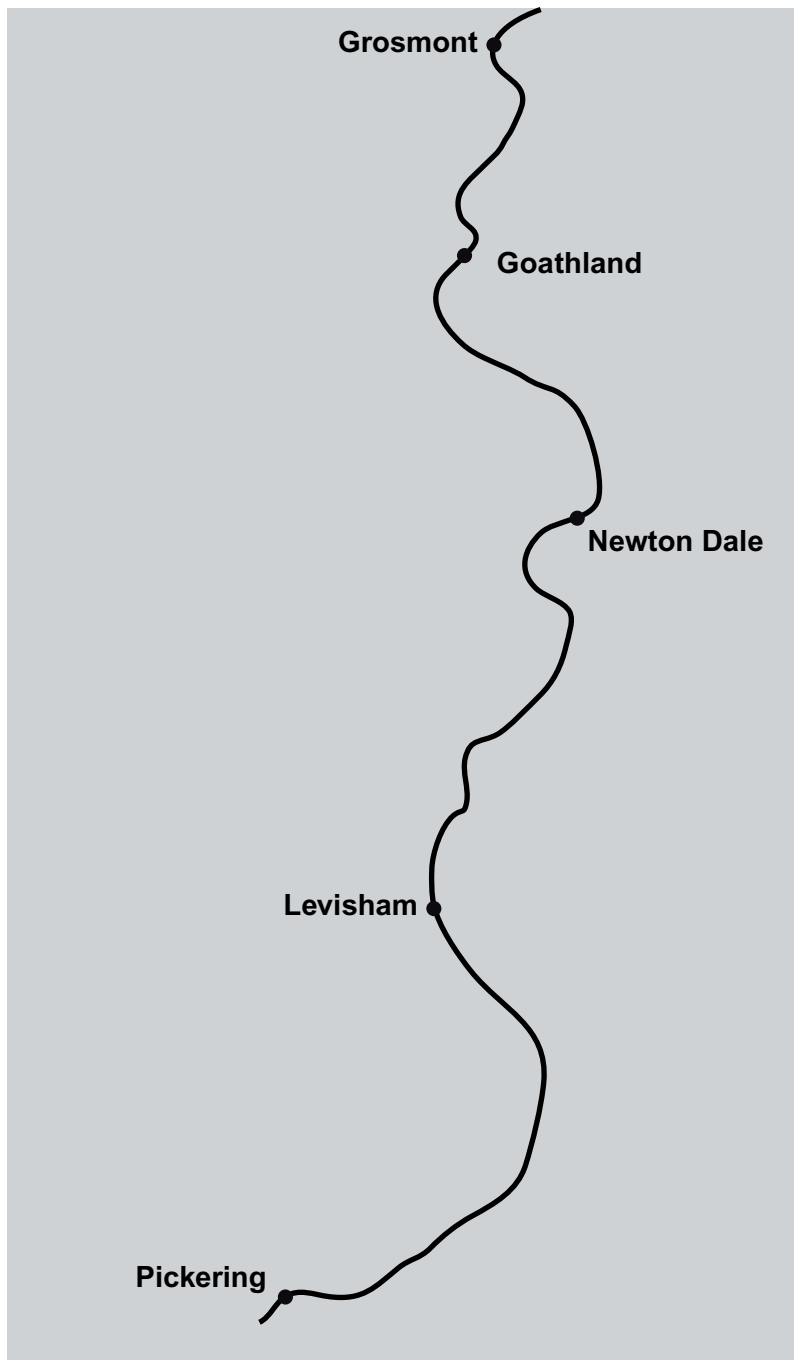
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Data Sheet for Steam Trains

The North Yorkshire Moors Railway runs steam trains between Pickering and Grosmont. The trains stop at stations along the way.

Railway map

The map shows the railway line and the stations.



Train timetable for Pickering to Grosmont

Pickering	09:40	10:40	11:45	12:45	14:00	15:00	16:00
Levisham	10:00	11:00	12:05	13:05	14:20	15:20	16:20
Newton Dale	–	11:09	12:14	13:14	14:29	15:29	16:29
Goathland	10:25	11:30	12:35	13:50	14:50	15:50	16:50
Grosmont	10:40	11:45	12:50	14:05	15:05	16:05	17:05

Train timetable for Grosmont to Pickering

Grosmont	10:00	11:10	12:15	13:30	14:30	15:30	16:30	17:30
Goathland	10:30	11:30	12:35	13:50	14:50	15:50	16:50	17:50
Newton Dale	10:43	11:43	12:48	14:03	15:03	16:03	17:03	–
Levisham	11:00	12:05	13:05	14:20	15:20	16:20	17:20	18:15
Pickering	11:20	12:25	13:25	14:40	15:40	16:40	17:40	18:35

Day Rover ticket

With a Day Rover ticket you can get on and off the train anywhere along the route. You can do this as often as you want for one day.

Walks from the stations

Here is a leaflet showing details of some walks from the stations.

Railway walks		
Walk A	Walk B	Walk C
Start at Levisham	Start at Newton Dale	Start at Goathland
7 mile walk	6 mile walk	5.5 mile walk
Finish at Levisham	Finish at Newton Dale	Finish at Grosmont

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Data Sheet for Sheep Farming**Number of sheep in a field**

Use this formula to work out the number of sheep you can safely keep in a field.

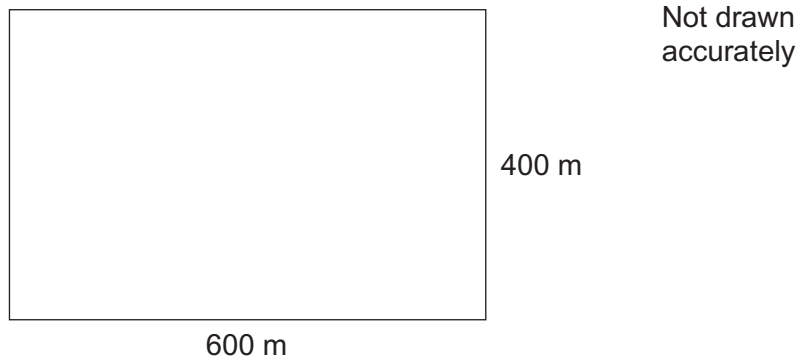
$$S = \frac{A}{800}$$

S is the number of sheep you can safely keep in the field.

A is the area of the field in square metres.

Example

A field is a rectangle with length 600 metres and width 400 metres.



$$A = 600 \times 400$$

$$= 240\,000$$

$$S = 240\,000 \div 800$$

$$= 300$$

You can safely keep 300 sheep in the field.

Ewes and Rams

Female sheep are called ewes.

Male sheep are called rams.

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