AQA

Functional Skills Certificate
FUNCTIONAL MATHEMATICS

Level 1
Data Book (Examination)

June 2018

Insert

Instructions
• This copy of the Data Book is for use in the examination. It should not be given to students 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 space provided in the Question Paper/Answer Book.

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QAN 500/8703/4

Data Sheet for Winset Park

Why do people measure trees?

- To decide what the trunk can be used for if a tree is cut down.
- To check the health of a tree.
- To compare the heights of different types of trees.

How to work out the height of a tree

At the same time of day, measure

> your height
>
> the length of the shadow of the tree
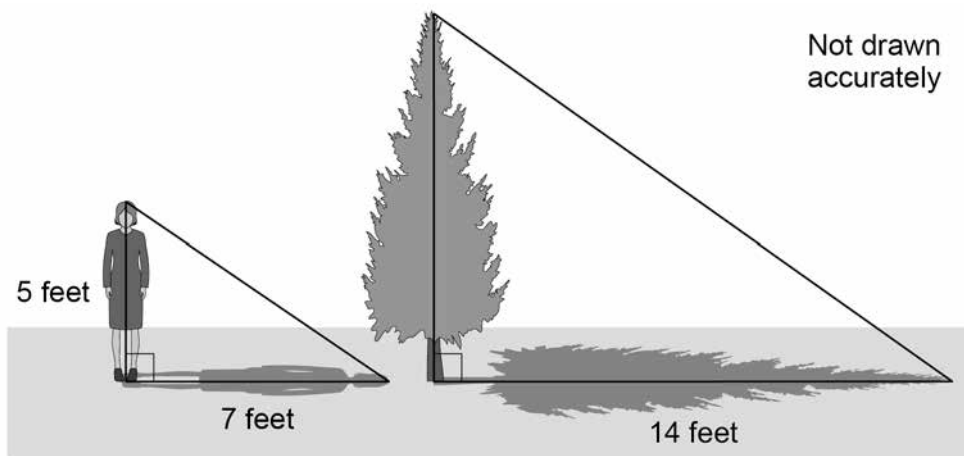>
> the length of your shadow.

Use these steps to work out the height of the tree.

Step 1   Work out   your height × length of the shadow of the tree

Step 2   Work out   answer to **Step 1** ÷ length of your shadow

Example

Ella wants to work out the height of this tree.

Not drawn accurately

5 feet

7 feet

14 feet

Her height is 5 feet.

The length of the shadow of the tree is 14 feet.

Her shadow is 7 feet.

Step 1   5 × 14 = 70

Step 2   70 ÷ 7 = 10

The height of the tree is 10 feet.

Designing a playground

A playground must

- be safe and secure
- have a safe surface in case children fall.

Safe surfaces include woodchips, playbark, sand and rubber matting.

Here are some popular playground items.

climbing frame

swing set

roundabout

rocker

sandpit

Turn over ►

Data Sheet for Saving money

Bank accounts

Some banks pay you money for having an account.

Some banks charge you fees for having an account.

A fee is money that you pay to the bank.

Westco supermarket

You earn points when you spend money at Westco supermarket.

For every £1 you spend on groceries you earn 1 point.

For every £2 you spend on petrol you earn 1 point.

Example

Harry visits Westco supermarket.

He spends £96 on groceries and earns 96 points.

He also spends £64 on petrol and earns 32 points.

In total he earns 128 points.

Using points

Here is information about how you can use your points to pay bills.

To pay for groceries	Each point is worth 1p
To pay for holidays	Each point is worth 3p
To pay for meals in restaurants	Each point is worth 4p

If you do not have enough points, you can use money to pay the rest of a bill.

Example

One month, Harry has earned 450 points.

He wants to use the points to pay a bill for a meal in a restaurant.

450 × 4p = 1800p

His points are worth £18

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