

Functional Skills Certificate FUNCTIONAL MATHEMATICS

Level 2

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.

Data Sheet for Saving money

Bank accounts

You can put your money into a bank account.

Interest

Some banks pay interest on the money in your account.

Interest is money that the bank pays you.

Fees

Some banks charge fees for having an account.

A fee is money that you pay to the bank.

Cashback

Some banks pay cashback when you use your account to pay bills.

Cashback is money that the bank pays you.

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.

You earn **extra** points if you pay with a Westco credit card.

For every £4 you spend at Westco you earn 1 point.

You also earn points if you pay with a Westco credit card at other shops.

For every £8 you spend you earn 1 point.

Example

At Westco supermarket Harry spends £96 on groceries and £64 on petrol.

$$96 + (64 \div 2) = 128 \text{ points}$$

He pays with a Westco credit card.

$$(96 + 64) \div 4 = 40 \text{ extra points}$$

Harry earns a total of 168 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 pay the rest of a bill with money.

Example

One month, Harry earned 450 points.

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

The bill is £23

$$450 \times 4p = 1800p$$

He can use the points to pay £18 of the bill.

He can then pay the rest of the bill (£5) with money.

Turn over ►

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 (h metres)

the length of the shadow of the tree (T metres)

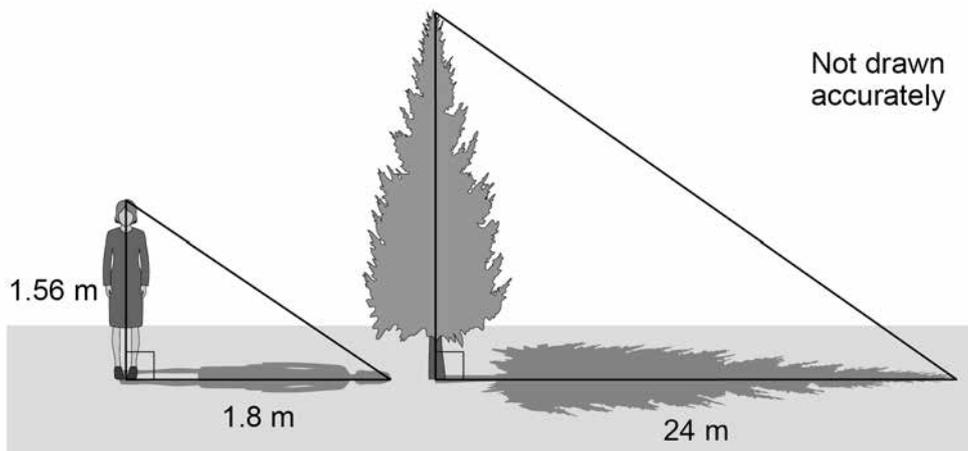
the length of your shadow (S metres).

Use this formula to work out the height of the tree.

$$\text{Height of tree} = \frac{h \times T}{S}$$

Example

Ella wants to work out the height of this tree.



$$h = 1.56 \text{ metres}$$

$$T = 24 \text{ metres}$$

$$S = 1.8 \text{ metres}$$

$$\begin{aligned} \text{Height of tree} &= \frac{1.56 \times 24}{1.8} \\ &= 20.8 \text{ metres} \end{aligned}$$

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

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