

# Mathematics Workbook

**Valid from September 2013 to August 2014**

Functional Skills Qualification in Mathematics at Entry 3

Learner name

Learner signature and date

Work through the whole book.

- Answer every question.
- You can write or draw to show your answers in the workbook.
- You can use a calculator.

Your tutor may read the questions to you.

Ask your tutor if you do not understand any words.

**You have up to 1 hour 30 minutes to complete the workbook.**

Your tutor may give you objects to help you with the questions.

You will need:

- Pencil
- Ruler
- Rubber

Turn over ►

# 1 The gym

Amy wants to go to a yoga class at the gym.

The table shows the times of the yoga classes.

	Mon	Tue	Wed	Thu	Fri
8:00 - 9:00	yoga				yoga
9:00 - 10:00		yoga			
17:00 - 18:00	yoga		yoga		
18:00 - 19:00					yoga
19:00 - 20:00		yoga			

The earliest time Amy can go to the gym is 17:30

Choose a yoga class for Amy.

(1)

Write your answer in the box below.

day of class.....

time of class .....

Josh goes to the gym 4 times each week.  
It costs him £14 each time he goes to the gym.

Josh goes for 3 weeks in April.

**What is the total cost for Josh to go to the gym in April?**

**(3)**

Write your working and your answer in the box below.

On Tuesday Josh is in the gym for 75 minutes.

He wants to use  $\frac{1}{3}$  of this time for weight lifting.

**What is  $\frac{1}{3}$  of 75 minutes?**

**(2)**

Write your working and your answer in the box below.

**Check your answer to show that you have found  $\frac{1}{3}$  of 75**

**(1)**

Write your check in the box below.

Josh wants to use an exercise bike.

He sees this sign.

Your height must be  
between 140 cm and 210 cm  
to use this bike



Josh knows his height is 1.8 metres.

**Is Josh the correct height to use this bike?  
You must show why you think this.**

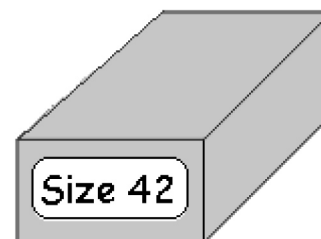
(3)

Write your working and your answer in the box below.

## 2 Sport

Mia plays football.  
She buys a new pair of boots in a box.

The box has a label on both ends.



**How many faces do not have labels?**

(1)

Write your answer in the box below.

Mia goes to football training.

She runs the length of the football pitch 4 times.  
The length of the football pitch is 116 m.

**How far does Mia run in total?**

(2)

Write your working and your answer in the box below.

Mia measures her heart rate when she is running.

The table shows what the heart rate for a fit person should be when they are exercising.

Mia knows the heart rate changes with age.

Age	Heart rate
20 - 29	-----
30 - 39	-----
40 - 49	126
50 - 59	119
60 - 69	112
70 - 79	105

Complete the number pattern.

(1)

Fill in the missing numbers in the table.

Some of the other football players measure their heart rates.

The rates are     145     148     153     155

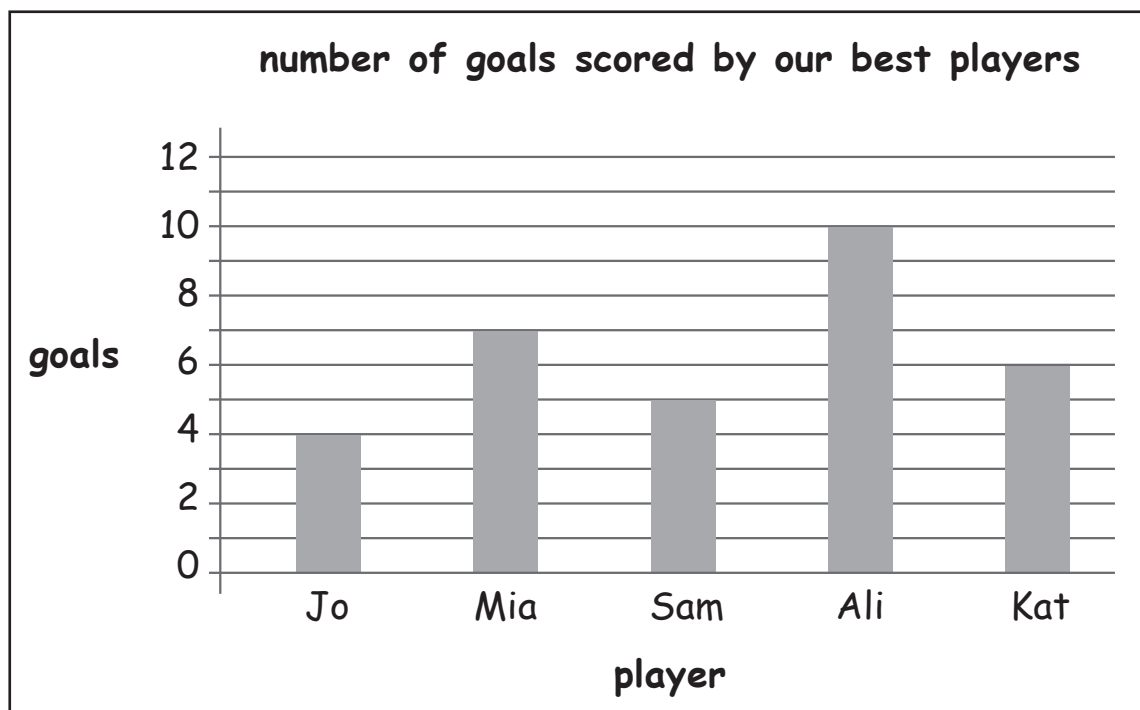
Which of these heart rates is nearest to 150?

(1)

Write answer in the box below.

Mia wants to compare the number of goals scored by the best players in the team.

Mia looks at this chart.



How many more goals did Ali score than Mia?

(2)

Write your working and your answer in the box below.

### 3 Footballs

Kenny helps to run a football club.

He wants to buy 5 training footballs and 1 sack.

training football £5.20 each

sack £9.50 each

**Find the total cost of 5 training footballs and 1 sack.**

**(3)**

Write your working and your answer in the box below.