Mathematics Workbook

Valid from September 2011 to August 2012

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 ▶

edexcel
advancing learning, changing lives

1: Going to a music festival

A group of friends goes to a music festival.

They will all stay in tents at the festival.

Tent for 5 people

The group has 18 people in total.

Each tent can have up to 5 people.

The group wants the smallest number of tents.

How many tents does the group need?

(2)

Write your working and your answer in the box below.

The hire cost for each tent is £42

The table shows the delivery cost for the tents.

Number of tents	Delivery cost
1	£25
2	£45
3	£60
4	£70
5 or more	£75

Work out the total of the hire cost and the delivery cost for the tents.

(3)

Write your working and your answer in the box below.
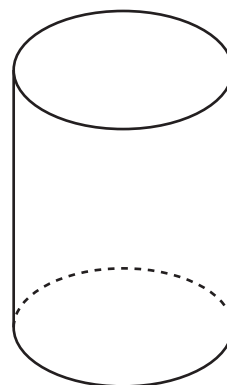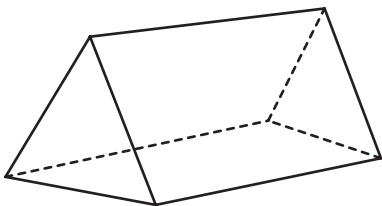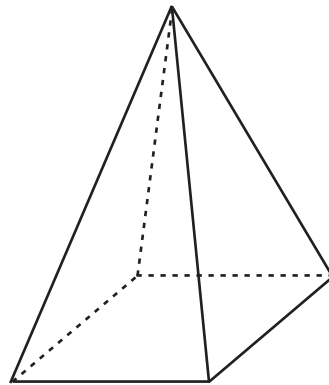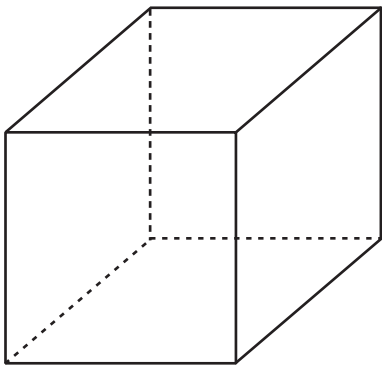
2: The music acts

Mo sets up the stage for the music acts.

Mo uses a pyramid shape for the stage lights.

What shape does Mo use?

(1)

Tick (✔) the pyramid shape in the box below.

Mo puts one stage light on **each face** of the pyramid.

How many faces does the pyramid have?

(1)

Write your answer in the box below.

Kim wants to see 4 music acts.

Kim needs to go to the acts at the right time.

| Evens | 5:30 pm |

| DJ Joe | 8:30 pm |

| Vegans | 7:45 pm |

| Fruitless | 6:15 pm |

List the 4 acts in the correct time order.

(1)

Write your answer in the box below.

....

....

....

....

Look at the times for the music acts.

Each music act lasts 40 minutes.

Nassim only watches one quarter of the DJ Joe act so that he can meet his friends.

What time does Nassim leave the DJ Joe act?

(2)

Write your working and your answer in the box below.

Erin is a drummer.

Erin uses this beat pattern.

4, 4, 4, 8, 4, 4, 4, 8, 4, 4, 4, 8, 4, 4, ..., ...,

What are the next <u>two</u> beats in the pattern?

(1)

Write your answers in the spaces.

The height of Erin's cymbal is 110 cm.

Erin wants the height of the cymbal to be 140 cm.

Erin can change the height of the cymbal.

Erin raises the cymbal by 25 cm.

Is the new height of the cymbal 140 cm?

(1)

Explain your answer in the box below.

3: Buying a CD

The festival shop sells 785 CDs.

What is 785 to the nearest hundred?

Write your answer in the box below.

Nassim wants to buy 4 CDs.

Nassim can buy the CDs from Festival CDs or from Super CDs.

Festival CDs

One CD £16.50

Buy 4 save £5

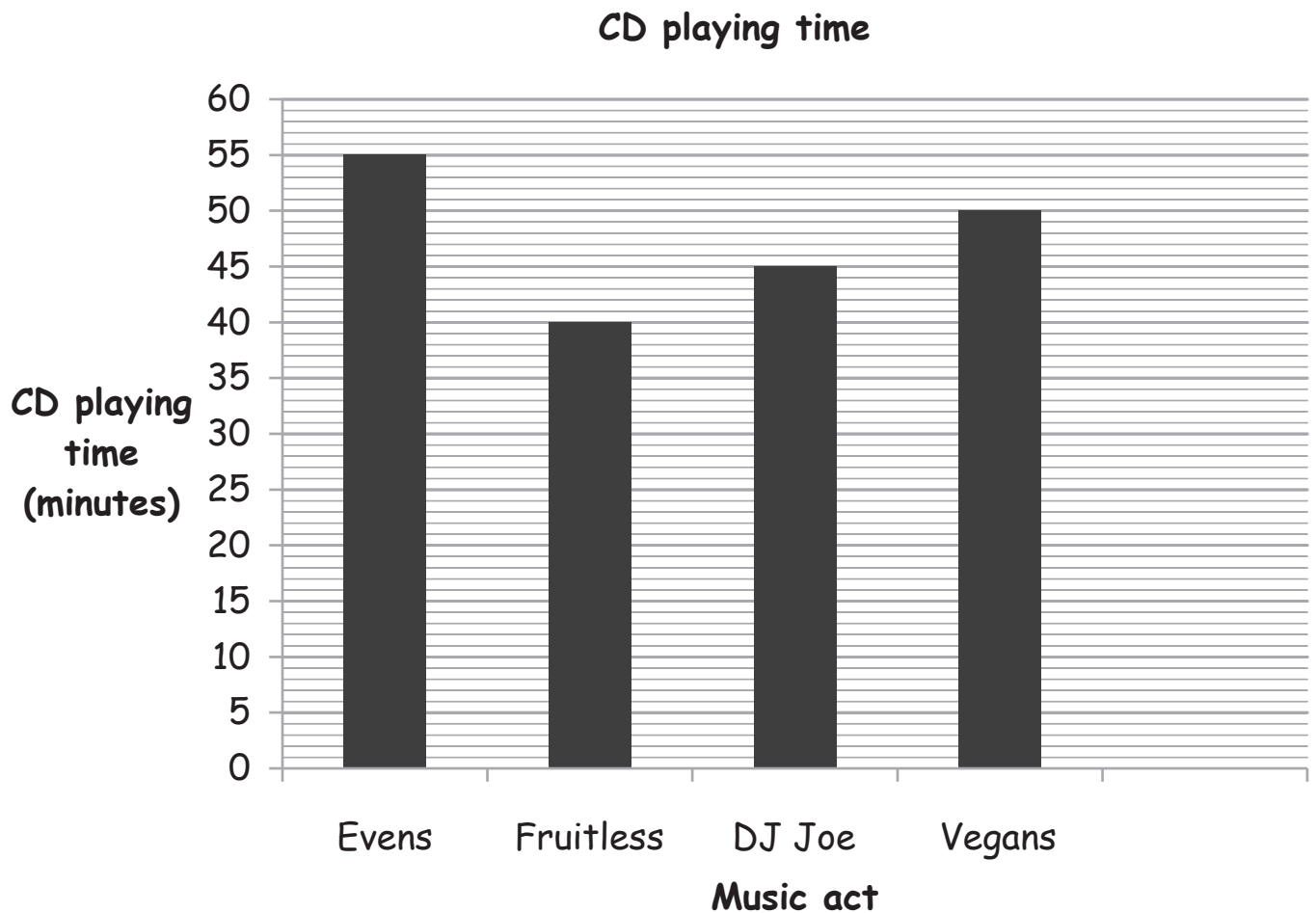**Super CDs**

One CD £16.50

Buy 4 only £15 each

Nassim wants to buy the 4 CDs for the cheapest price.

What is the cheapest price for 4 CDs?

(4)

Write your working and your answer in the box below.

The chart shows the playing times of some CDs.

CD playing time

CD playing time (minutes)

Music act

Find the difference between the longest playing time and the shortest playing time.

(3)

Write your working and your answer in the box below.