**Level 2 Functional Skills Mathematics
Sample 4**

Duration: 25 minutes
Total marks: 15 marks

City&
Guilds
A City & Guilds Group Business
Version 1-0

SECTION 1 – CALCULATOR NOT PERMITTED

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Assessment date (DDMMYYYY) Centre number

Candidate signature and declaration*

***I declare that I had no prior knowledge of the questions in this assessment
and that I will not share information about the questions.**

**Please check that your name is correctly printed on the candidate barcode label. If not, please
tell the invigilator before the start of the exam.**

You should have the following for this assessment:
- a pen with black or blue ink
- a pencil
- an eraser
- a 30cm ruler.

You must NOT use a protractor.
You must NOT use a calculator for Section 1.

General instructions
- Read through each question carefully.
- You may use a dictionary.
- Write all your answers in this booklet.
- Check your calculations and check that your answers make sense.

SECTION 1 – CALCULATOR NOT PERMITTED

There are **15** marks available in this section.

You should check all your work as you go along.

You must **not** use a calculator in this section.
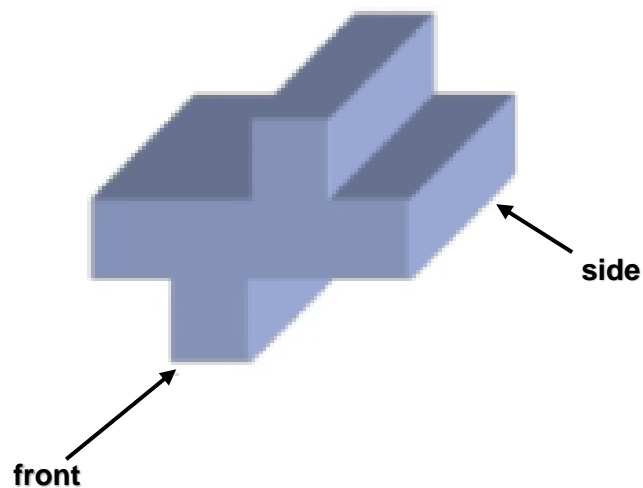
Q1

672 ÷ 21

_____
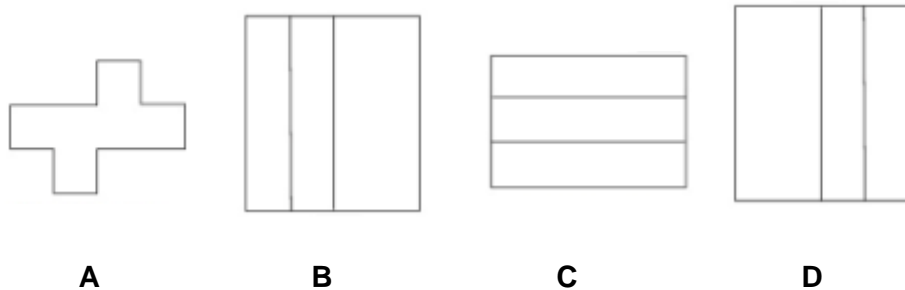
(1 mark)

Q2

What is 0.825 as a percentage?

_____%

(1 mark}

Q3

The diagram shows a cross section of a metal bar.

Which one of the following is the **side elevation**?

| A | B | C | D |

_____

(1 mark)

Q4

$$\frac{\sqrt{15-6}}{3} =$$

_____

(1 mark)

Q5

A box of chocolates contains 4 hard centres, 6 soft centres and 2 plain chocolates.
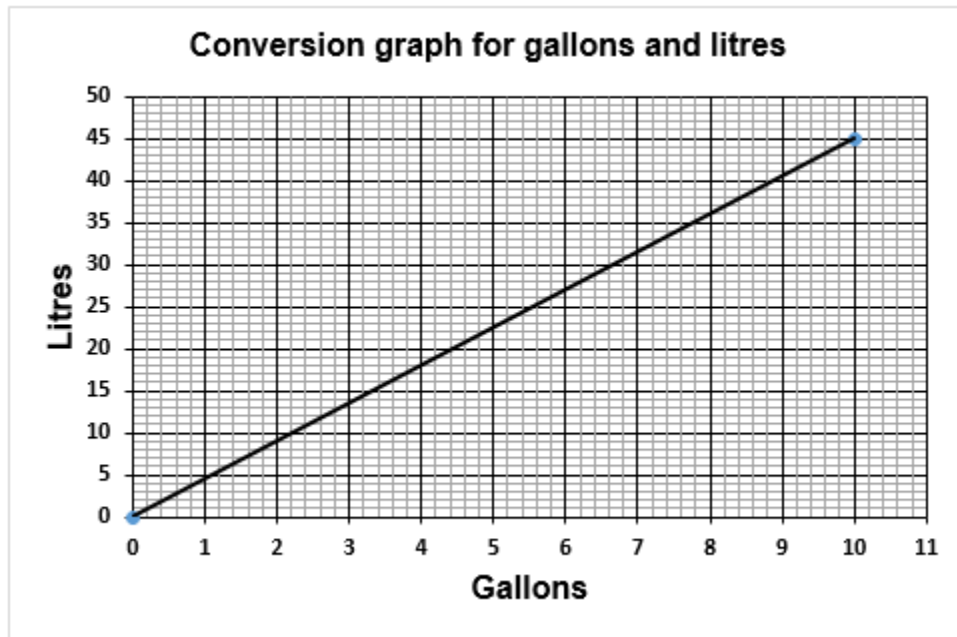
A woman chooses a chocolate at random.

What is the probability that she takes either a hard centre or a soft centre?
Give your answer as a fraction in its lowest terms.

$$\frac{\boxed{}}{\boxed{}}$$

(1 mark)

4

Q6

Conversion graph for gallons and litres

What is 6 gallons in litres, to the nearest litre?

_____ **litres**

(1 mark)

Q7

What is 42% of 400?

_____

(1 mark)

Q8

An inspector checks the weights of bags of crisps.

Weight of bags of crisps in grams(g)				
24.4	25.5	25.0	25.3	24.4
26.5	25.5	24.9	24.4	25.5
25.5	25.1	25.5	24.2	24.5

What is the modal weight for the bags of crisps?

_____ **g**

(1 mark)

Q9

18.369 + 3.197 – 2.475 =

_____

(1 mark)

Q10
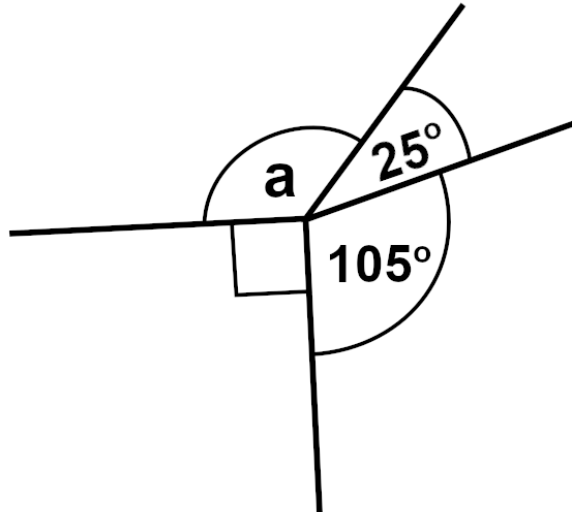
What is the value of angle **a**?

Angle **a**_____°

(1 mark)

Q11

Eight bricklayers on a building site took 25 hours to build a wall.

The Site Manager needs a similar wall built.

He can hire five bricklayers to build this wall.

He needs to know how much longer it will take to build this wall.

How much **longer** will it take?

Show your working

_____ **hours**

(2 marks)

Q12

A woman needs to work out how long it will take to drive to York.

She checks the journey on a website.

The distance from her house to York is 80 miles.

20 miles of the journey are through roadworks with a speed restriction of 40mph.

She should drive the rest of the journey at an average speed of 50mph

How long should the journey take?

Show your working

Time taken _____ **hours** _____ **minutes**

(3 marks)

End of Section 1