



FUNCTIONAL SKILLS MATHS & ENGLISH

LEVEL 1 & 2 EXAMS

WHO WE ARE

Leading training company for 26 years

Intech Centre is an established training provider based in Islington, London, with over 26 years of experience in delivering education, employability and digital skills programmes.

Intech Centre specialises in **Functional Skills English and Maths Level 1 & 2**, helping learners successfully pass Level 1 and Level 2 Functional Skills exams required for university entry, apprenticeships, teacher training, nursing courses and many other professional pathways.

Thousands of learners have used our resources, courses and exam services to achieve nationally recognised qualifications.

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- Functional Skills English

Tutoring

- Functional Skills Maths & English Exam Tutoring

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- ➔ Functional Skills **Maths** Level 1 or 2 Exam **in London**
- ➔ Functional Skills **English** Level 1 or 2 Exam **in London**
- ➔ **Online** Functional Skills **Maths** Level 1 or 2 Exam
- ➔ **Online** Functional Skills **English** Level 1 or 2 Exam



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Please write clearly in block capitals.

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Forename(s) _____

Candidate signature _____

I declare this is my own work.

Functional Skills Level 2

MATHEMATICS

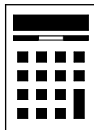
Paper 2 Calculator

Thursday 3 November 2022 Afternoon Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

For Examiner's Use	
Question	Mark
1–8	
9	
10	
11	
12	
TOTAL	

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.
- If your calculator does not have a π button, take the value of π to be 3.142

Advice

In all calculations, show clearly how you work out your answer.



N 0 V 2 2 8 3 6 2 2 0 1

Section AAnswer **all** questions in the spaces provided.

- 1** Circle the integer. **[1 mark]**

0.5

 $\frac{1}{8}$

7

-10.2

- 2** Write 9 507 211 in words. **[1 mark]**

Answer _____

- 3** Work out 3 years to 9 months as a ratio.
Give your answer in its simplest form. **[2 marks]**

Answer _____ : _____



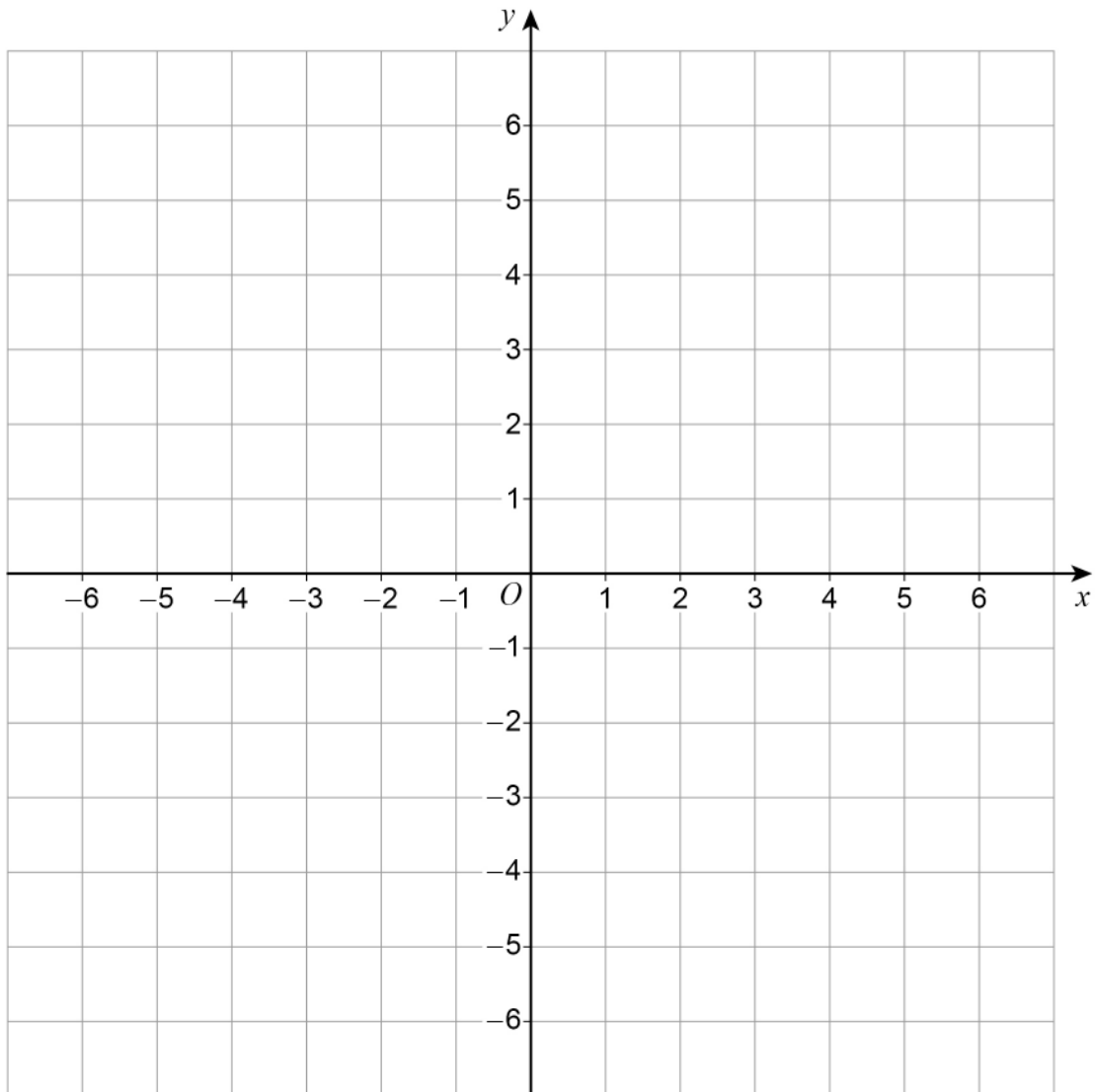
4 On the grid, plot and label the points X, Y and Z.

[2 marks]

$X = (3, 5)$

$Y = (5, -3)$

$Z = (-3, -5)$



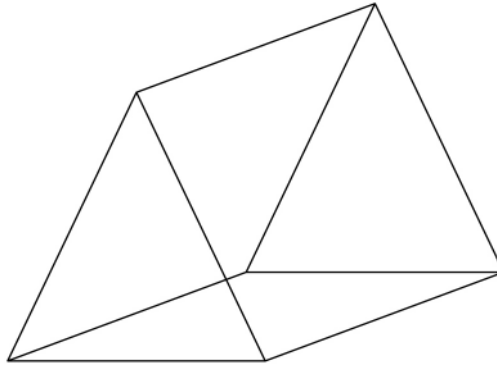
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5 Write the mathematical name of this solid shape.

[1 mark]



Answer _____

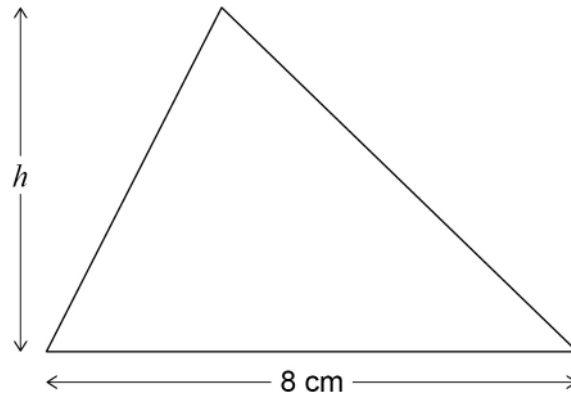
6 Calculate $2\frac{1}{5} + 1\frac{3}{4}$

[1 mark]

Answer _____



- 7 A triangle has an area of 20 cm^2
The base of the triangle is 8 cm



Work out the perpendicular height, h , of the triangle.

[2 marks]

Answer _____ cm

- 8 Calculate $2(7 + 3k)$ when $k = -1.8$

[2 marks]

Answer _____

12

Turn over ►



Section B

Answer **all** questions in the spaces provided.

9 Lorry driving

Asha is a lorry driver.

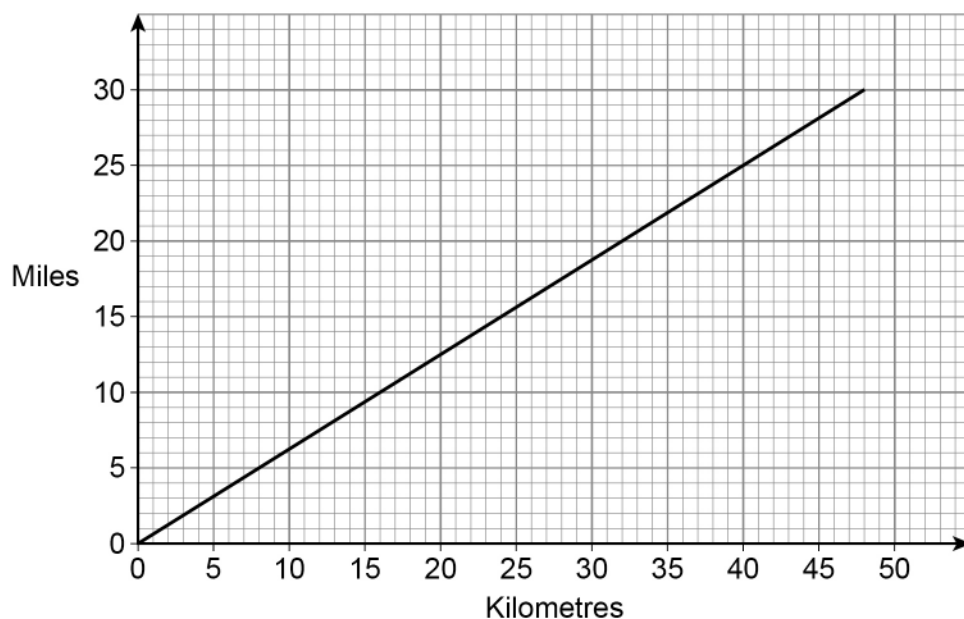
9 (a) Asha drives from Southampton to Leeds.

The journey

is 380 kilometres

takes 5 hours and 30 minutes.

The graph can be used to convert between miles and kilometres.



Asha works out that his average speed is **over** 40 mph

Is he correct?

You **must** show your working.

[4 marks]



- 9 (b) The amount Asha is paid each week is calculated using the formula

$$P = 0.73(0.14d + 65n)$$

where

P = pay in pounds

d = distance driven in kilometres that week

n = number of days worked that week

Last week Asha worked for 5 days.

His pay for last week's work was £605.17

How many kilometres did Asha drive last week?

[4 marks]

Answer _____ kilometres

8

Turn over for the next question

Turn over ►



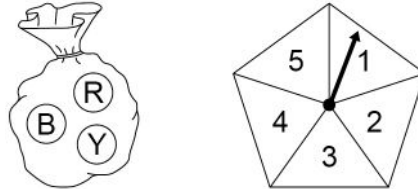
10 Fundraising

Carol is fundraising for a sports club.

10 (a) Carol designs a game.

The game uses

a bag containing a red ball, a blue ball and a yellow ball
a fair, 5-sided spinner.



The player

picks a ball at random from the bag
and
spins the spinner.

The player wins if they pick the **red** ball and the spinner lands on an **even** number.

Carol says,

“The chance of winning is **more than** 10%”

Is she correct?

You **must** show your working.

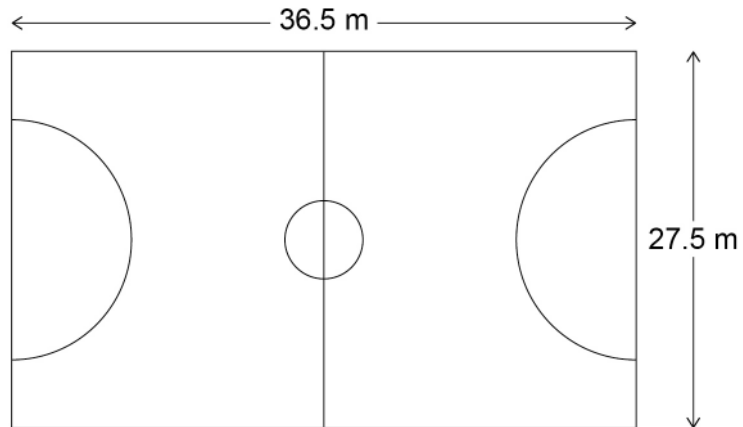
[4 marks]



10 (b) The club wants to use some of the money to paint the lines on a mini football pitch.

The lines to be painted are

- the four sides of a rectangle measuring 27.5 m by 36.5 m
- a halfway line measuring 27.5 m
- a centre circle with a radius of 1.5 m
- two semicircles, each with a radius of 8 m



Not drawn
accurately

It costs £3.25 per metre to paint the lines.

In total, how much will it cost to paint all the lines?

[6 marks]

Answer £ _____

Turn over ►



- 11 (b)** Suzi uses a 15% discount voucher when she buys the tubs of ice cream.
She pays £76.50 after the discount.
Suzi says,

“I save **less than** £14 by using the discount voucher.”

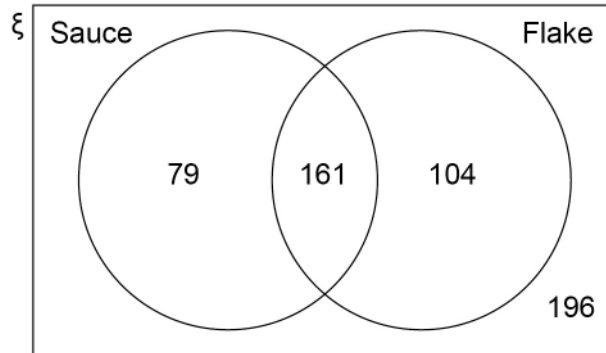
Show working to support this statement.

[3 marks]



- 11 (c)** Suzi sells two ice cream toppings, sauce and flake.
She hopes that the probability that a customer, picked at random, buys **at least one** topping will be more than $\frac{7}{10}$

The Venn diagram shows what toppings the customers buy over one weekend.



Over this weekend, does Suzi achieve the probability she hopes to get?

You **must** show your working.

[3 marks]

11

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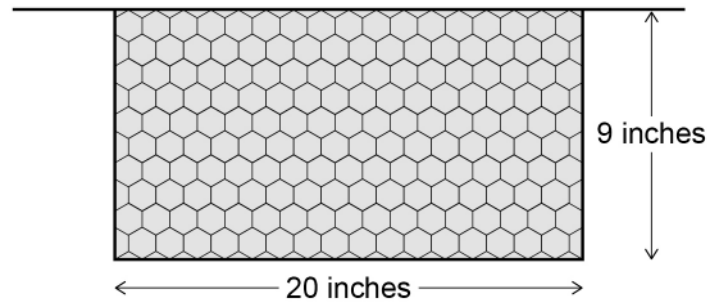


12 Bees

Mary keeps bees and sells the honey they produce.

12 (a) The bees live in a beehive.

Mary's beehive holds rectangular frames full of honeycomb.



Not drawn
accurately

Each frame measures 9 inches by 20 inches.

The beehive holds 8 frames.

Mary cuts the honeycomb into rectangular pieces measuring 11 cm by 7.5 cm

Work out the maximum number of pieces that Mary can get from her **beehive**.

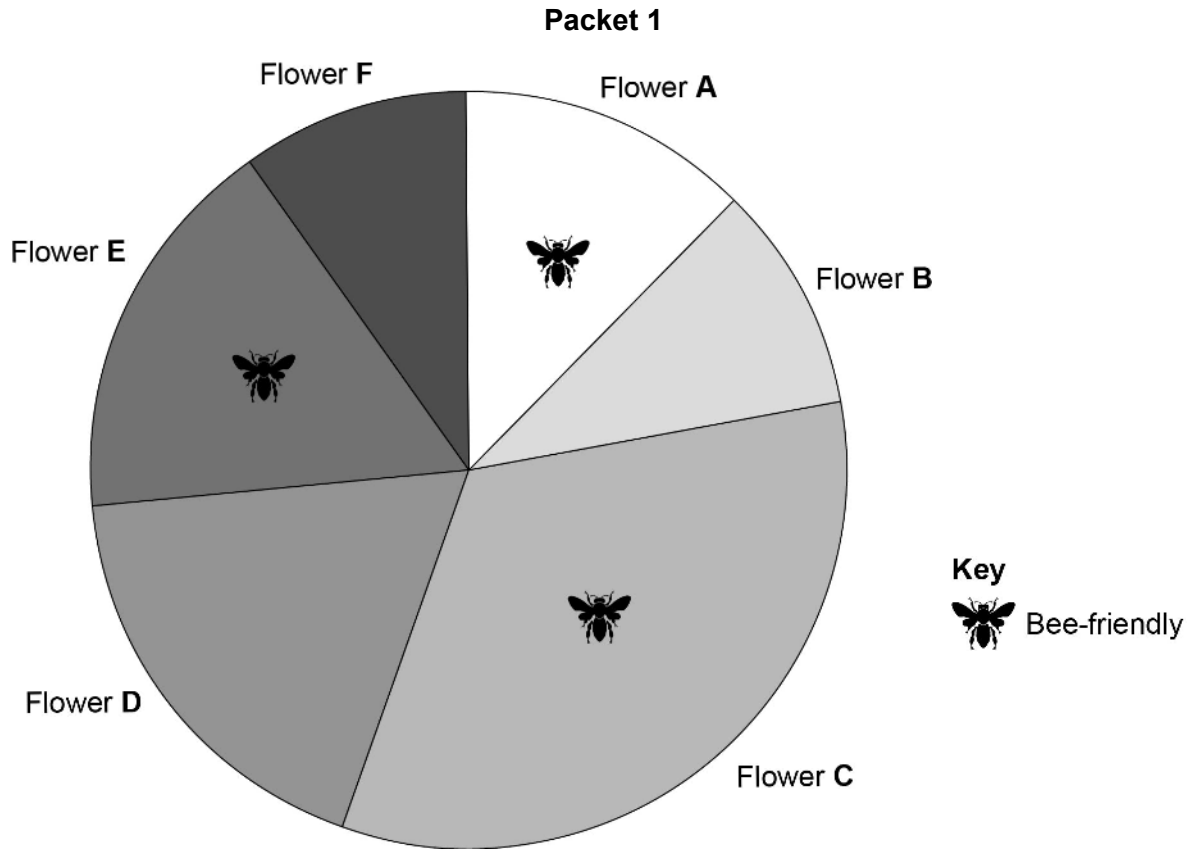
Use 1 inch = 2.5 cm

[5 marks]

Answer _____



12 (b) Mary wants to grow some bee-friendly flowers.
She finds information about the different flowers produced from two packets of seeds.



Two thirds of the seeds in **Packet 2** produce bee-friendly flowers.
Mary wants to buy the packet producing the greater proportion of bee-friendly flowers.

Which packet should she buy?
You **must** show your working.

[4 marks]

Turn over ►



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box*

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ANSWER IN THE SPACES PROVIDED**





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