


Please check the examination details below before entering your candidate information

Candidate surname	Other names
Centre Number	Candidate Number
<input style="width: 90%;" type="text"/>	<input style="width: 90%;" type="text"/>
<b>Functional Skills Level 1 Mock 3</b>	
Time: 1 hour	
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <h2 style="margin: 0;">Mathematics</h2> <h3 style="margin: 0;">Section B (Calculator)</h3> </div> <div style="text-align: right;">  </div> </div>	
<b>You must have:</b> Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.	Total Marks <input style="width: 80%; height: 40px;" type="text"/>

**My signature confirms that I will not discuss the content of the test with anyone.**

Signature: \_\_\_\_\_

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- If your calculator does not have a  $\pi$  button take the value of  $\pi$  to be 3.14
- **Calculators may be used.**

### Information

- The total mark for this section is 24
- The total mark for this paper is 32
- The marks for each question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- This sign  shows where marks will be awarded for showing your checks.

### Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

**Turn over** ►

## SECTION B

Answer ALL questions. Write your answers in the spaces provided.

1

The table gives some information about the number of visits to a gym last month.

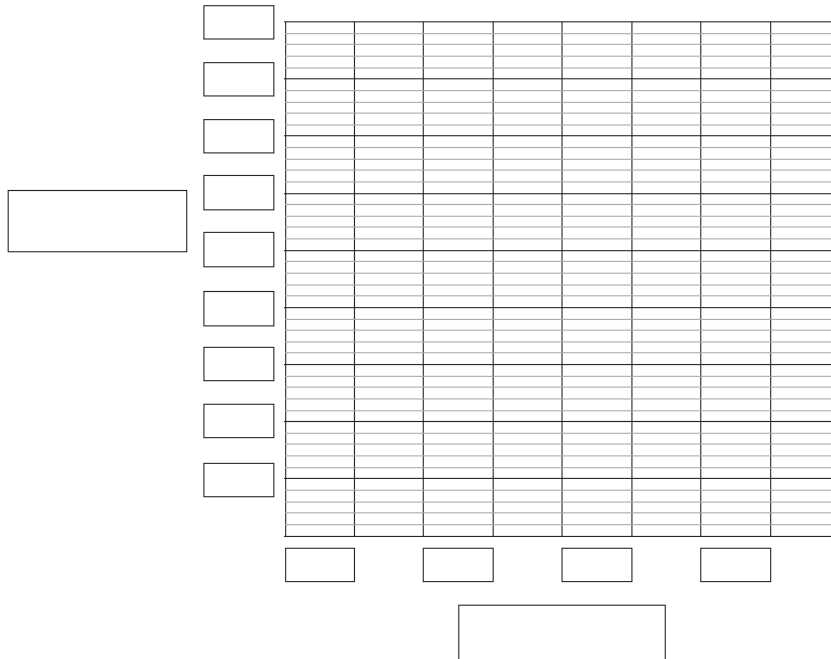
number of visits	tally	frequency
1 – 5		
6 – 10		
11 – 15		
more than 15		

(a) Complete the frequency column.

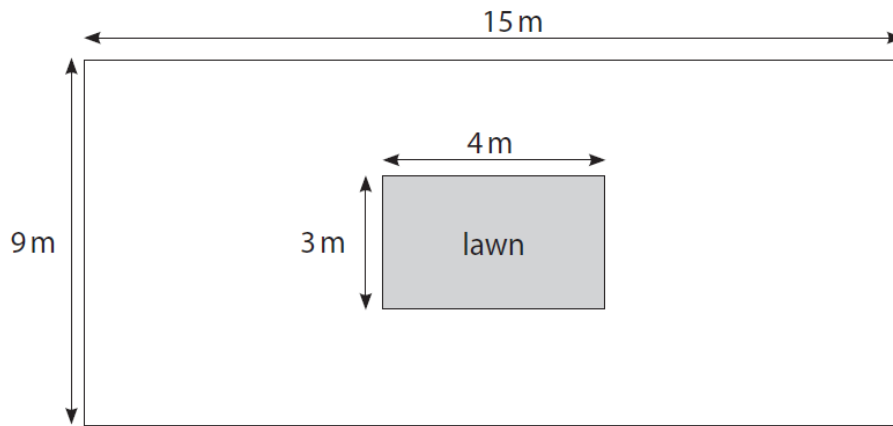
(1)

(b) On the grid, draw a suitable graph for this information.

(3)



- 2 Alfie sells flooring for playgrounds.  
He has this diagram of a playground.



The playground is rectangular 9 m by 15 m.  
The lawn is rectangular 3 m by 4 m.

Alfie will put flooring on all the space inside the playground but not on the lawn.  
The flooring costs £36 per square metre.

Work out the total cost of the flooring.

(5)

DO NOT WRITE IN THIS AREA

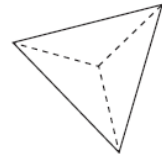
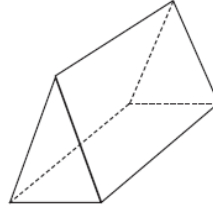
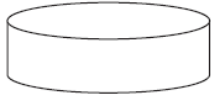
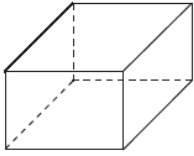
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

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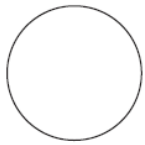
3

Josh is designing gift boxes.  
He designs these boxes.



Josh needs to know the shape of the boxes from different views.

shape 1



shape 2



shape 3



shape 4



Place the correct numbers in the space to complete the sentences.

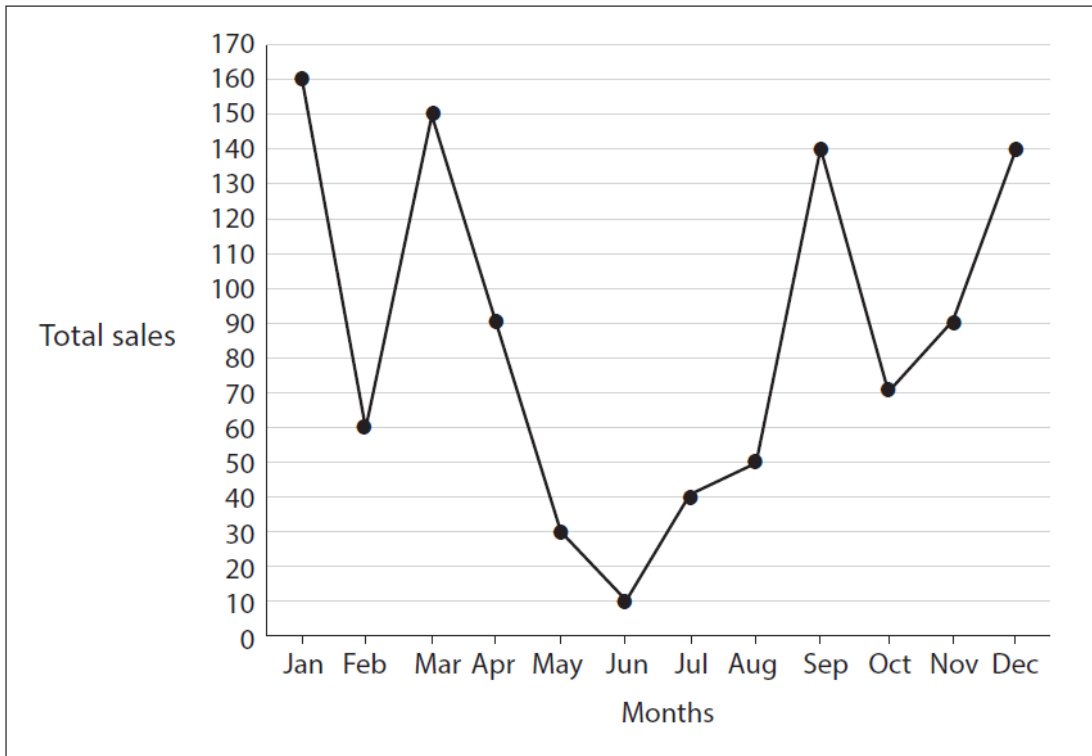
(a) Shape ..... is the plan view of the cylinder. (1)

(b) Shape ..... is the front view of the triangular prism. (1)

(c) The triangular based pyramid has ..... faces, ..... edges and  
..... vertices. (1)

4

Kate has this information about the total monthly sales for a shop in 2018



Kate needs to put this information in a table.

The table must show the total sales for each quarter of the year.

quarter 1 (Jan to Mar)

quarter 2 (Apr to Jun)

quarter 3 (Jul to Sep)

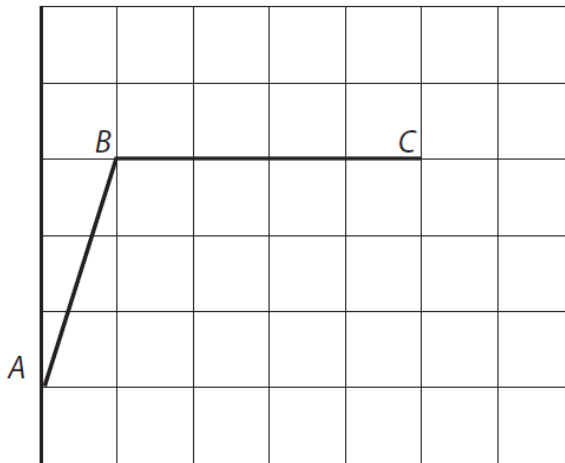
quarter 4 (Oct to Dec)

Draw and complete a suitable table for Kate.

(3)

- 5 Karen is a cake designer.  
She is designing different shaped cakes.

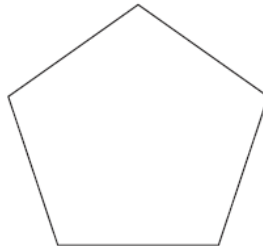
$AB$  and  $BC$  are two sides of a parallelogram.



- (a) On the grid, complete the parallelogram.

(1)

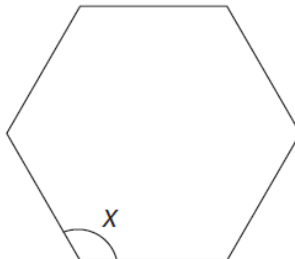
Here is a regular pentagon.



- (b) Draw all the lines of symmetry on this pentagon.

(1)

Here is a regular hexagon.



- (c) What type of angle is angle  $x$ ?  
Tick the correct answer.

(1)

right angle

acute angle

reflex angle

obtuse angle

6

Daniel has these test results

public services 46%

maths  $\frac{14}{25}$

English  $\frac{13}{20}$

art and design  $\frac{6}{10}$

His tutor wants to compare these results.

List the subjects in order from his best result to his worst result.  
Show why you think this.

(3)

7

Sarah has a snack at work each day.

She has this information about the snacks she had last week.

<b>day</b>	Mon	Tue	Wed	Thu	Fri
<b>snack</b>	banana	chocolate	biscuit	cake	crisps
<b>number of calories</b>	105	260	49	257	234

Sarah thinks the mean number of calories in these snacks is more than 200

Is she correct?  
Show why you think this.

(3)