

Write your name here

Surname

Other names

Grade One and Two Paper
Level 1 / Level 2
GCSE (9–1)

Centre Number

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Candidate Number

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Mathematics Paper K

Mock Exam Feedback

Mock Exam Feedback

Time: 1 hours 20 minutes

Paper Reference

Grade 2-4

You must have: Ruler graduated in centimetres and millimetres,
protractor, pair of compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Total Marks

60

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.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**

Information

- The total mark for this paper is 60
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

Answer all the questions.

- Q1** A school had 648 students in total in Years 9, 10 and 11.
- The school offered three foreign languages: French, German and Spanish.
- Of the 232 students that took French, 91 were in Year 10.
- Thirty-seven of the 211 students in Year 10 studied Spanish.
- Sixty-four of the 219 students who chose German were in Year 9.
- In Year 11, 141 students studied French and Spanish.
- The French teachers catered for 83 Year 9 students in their subject.

a Complete the two-way table below.

(4)

- b A student from Year 10 is selected at random. What is the probability that the student selected studies German?

.....

(2)

- c Two students are selected from the school. What is the probability that both students are from Year 10?

.....

(2)

- d One student is selected at random. The probability of a student with the same attributes as this one being selected is $\frac{1}{9}$. In what year group is the student and subject do they study?

.....

(3)

- e What percentage of the total student population study Spanish?

.....

(3)

- Q2** Multiply 21.8×1.67 .

.....

(3)

- Q3** Using your calculator, determine the value of the following:

$$\sqrt{\frac{26.7 + 3.7^2}{8.4 - 6.71}}$$

Write down all the figures on your calculator.

.....

(2)

Q4 Steve, James and Natalie decide to go on holiday to Spain for a fortnight.

Both Natalie and Steve look for flights. Steve finds a flight that would cost them £452 each. Natalie finds a flight that costs £1446.00 altogether, but the travel agent said that they would knock off five percent of the flight cost if they booked within 48 hours.

James found the accommodation which he booked for £117 per person per night.

Natalie ordered £900 spending money which she got changed into Euros at a rate of 1:1.27 pounds to the euro.

Travel insurance cost £43.57 each.

- a Whose flight booking should the friends choose and how much money did that choice save them?

.....

(3)

- b How much was the accommodation on holiday?

.....

(2)

- c How many Euros did Natalie get in exchange for the £900?

.....

(2)

- d The three friends split the cost of the holiday equally. How much did Natalie have to pay for the holiday?

.....

(3)

- Q5** Divide 31.25 by 8.3. Give the answer correct to 3 significant places.

.....

(3)

Q6 Divide 500.4 by 3.6.

.....

(3)

Q7 Using a calculator, find $\sqrt{\frac{13.9-9.14}{4.3+7.24^3}}$

.....

(3)

Q8 A map has a scale of 1:25000. A route on the map is 17cm long. How far is this distance in km?

.....

(3)

Q9 Another map has a scale of 1:80000. How long would the same route be when it was seen on the new map?

.....

(3)

Q10 Put the following numbers into ascending order.

-3.5 -3.04 -3.26 3.0832 3.00931

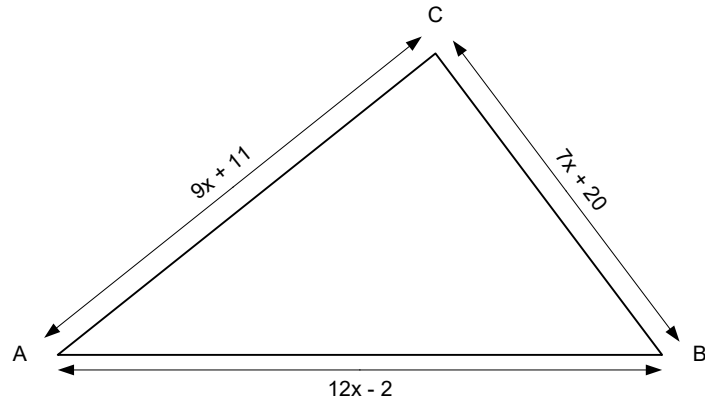
.....

(1)

Q11 ABC is a triangle.

The perimeter of ABC is 225 cm.

Find the value of x .



Q12 Use your calculator to find the answer to $\frac{3}{\sqrt{16.4+39.7}} + \sqrt{\frac{3}{16.4^2-12.3}}$

Write all the digits that your calculator shows.

.....

(2)

Q13 A map has a scale of 1:25,000. Billy draws a line that is 17cm on the map. How far does this line represent in real life?

.....

(2)

Q14 Put the following numbers in ascending order.

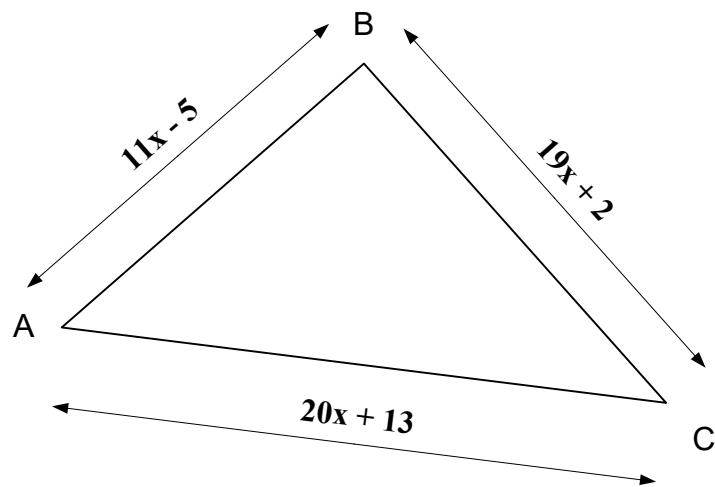
-3.84 3.2 3.29 -3.24 3.42 3.25 3.24624 3.24623 3.24

.....

(1)

Q15 ABC is a triangle.

The perimeter of the triangle is 360 cm.



Show that ABC is a right-angled triangle.