AQA

| Please write clearly in | block capitals. |
|-------------------------|------------------|
| Centre number | Candidate number |
| Surname | |
| Forename(s) | |
| Candidate signature | |

GCSE MATHEMATICS

Foundation Tier Unit 3 Geometry and Algebra

Tuesday 14 June 2016

Morning

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.
- Do all rough work in this book.
- If your calculator does not have a π button, take the value of π to be 3.14 unless another value is given in the question.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- Quality of your written communication is specifically assessed in Questions 15 and 18. These questions are indicated with an asterisk (*).
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

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























| 4 (b) | Which city on the map is North-East of Valencia? Circle your answer. [1 m | | | | | [1 mark] |
|-------|---|----------|----------------------------------|-------------|-----------|-------------|
| | Porto | Sevilla | Almeria | Madrid | Barcelona | |
| 4 (c) | | | cm represents e between Barco | | id. | [3 marks] |
| | | Answer _ | | | km | |
| | | Turn | over for the ne | xt question | | |
| | | | | | | |
| | | | | | | |
| | | | | | | Turn over ▶ |











| 7 (b) | Dan buys five tins of paint for £169 | | | |
|-------|---|-------------|--|--|
| | How many tins of each size does he buy? | [2 marks] | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Answer5-litre tin | S | | |
| | and10-litre tin | S | | |
| | | | | |
| | | | | |
| | Turn over for the next question | | | |
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| | | Turn over ► | | |







9 The diagram shows a water tank in the shape of a cuboid. 1 6 cm 10 cm K 25 cm \rightarrow The height of the water in the tank is 6 cm Water leaks from the bottom of the tank at the rate of 30 cm^3 per minute. How many minutes will it take the tank to empty? [3 marks] Answer minutes

















Turn over for the next question

1 7

Turn over ►

| 12 | | | | | | |
|--------|------------------------------------|-------------------------|-------------|---------------|-----------|----------|
| | | | b c d | \mathcal{X} | | |
| 12 (a) | Which angles a Circle your ansv | | oosite? | | | [1 mark] |
| | a and b | a and c | b and c | b and d | c and d | |
| 12 (b) | Which angles a Circle your ansv | | | | | [1 mark] |
| | a and b | a and c | b and c | b and d | c and d | |
| 12 (c) | Which angles a Circle your answ | re correspondin wer. | ıg? | | | [1 mark] |
| | a and b | a and c | b and c | b and d | c and d | |











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| *15 | Oil is sold in two sizes. | | | | |
|-----|---|---------------------------------------|-----------|--|--|
| | £8.75 | 5 litres was £49.80 now 15% off | | | |
| | | | | | |
| | Which size is better value for money? You must show your working. | | [4 marks] | | |
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| | Answer | | | | |
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| | | | | | |



Jack drives 95 miles.

16

He drives at an average speed of 38 mph He starts his journey at 7 am

What time does he arrive?

[3 marks]

Answer _____

Turn over for the next question



Turn over

















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