

1 hour.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in the question paper.

Complete in blue or black ink only. **Do not write in pencil or with a gel pen.** Answer **all sixteen** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

You may use a calculator for this paper.

INFORMATION FOR CANDIDATES

The total mark for this paper is 50.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question. Functional Elements will be assessed in this paper.

Quality of written communication will be assessed in **questions 2, 3 and 7**.

You should have a calculator, ruler, compasses and protractor.

The Formula Sheet is overleaf.







| Ovelity of written communication will be appreced in this question | Examinar Only |
|--|------------------|
| Quality of written communication will be assessed in this question. | Marks Remark |
| $2 \qquad 600 \qquad 800 \qquad 1000 \qquad 1200 \text{ litres}$ | |
| The gauge above shows the amount of heating oil that Brian had in his oil tank on 1st January. | |
| (a) How much oil was in the tank? | |
| Answer litres [1] | |
| Brian uses 140 litres of oil per month. | |
| (b) Is there enough oil in the tank to last until 30th April? | |
| Explain your answer. | |
| Answer because | |
| [2] | |
| A delivery of 900 litres of oil is made to Brian on 1st May. | |
| (c) Show how much oil is in the tank after the delivery on 1st May by marking it clearly on the gauge above. [2] | |
| | Total Question 2 |
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| Qu | ality | of written communication will be assessed in this question. | Examiner Only Marks Remark |
|------|------------|--|-------------------------------|
| 3 | Sca | ffolding can be hired. | |
| | The | hire charge is calculated using this formula: | |
| | | Fifty-five pounds per day plus a fixed charge of eighty pounds | |
| | (a) | Is the cost of hiring the scaffolding for 10 days twice the cost of hiring the scaffolding for 5 days? | |
| | | Explain your answer. | |
| | | | |
| | | | |
| | | Answer because | |
| | | [2] | |
| | | | |
| | (b) | A builder paid £850 altogether to hire some scaffolding. | |
| | | For how many days did he hire the scaffolding? | |
| | | | |
| | | | |
| | | | |
| | | Answer days [2] | |
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| | | | Total Question 3 |
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| 4 (a) | In the following sentences fill in appropriate metric units. | Examiner Only | |
|-------|--|----------------|---|
| | (i) Lengths can be measured in feet or | [1] | k |
| | (ii) Milk can be bought in pints or | [1] | |
| | (iii) Sugar can be bought in pounds or | [1] | |
| (b) | The distance between two towns is 48 kilometres. | | |
| | How many miles is this? | | |
| | | | |
| | Answer miles | [2] | |
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| What type of triangle ha | S | | Examiner Only Marks Remark |
|--------------------------|---------|-----|-------------------------------|
| (a) three lines of symm | etry? | | |
| | Answer | [1] | |
| (b) only one line of syn | nmetry? | | |
| | Answer | [1] | |
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| | | | Examiner Only Marks Remark |
|--|--------|-----|-------------------------------|
| (a) 0.00592 to 4 decimal places, | | | |
| | Answer | [1] | |
| (b) 0.00502 to 2 decimal places | | | |
| (b) 0.07502 to 2 decimal places. | Answer | [1] | |
| | | [1] | |
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| | | | Total Question 8 |

| 9 | While Peter was on a visit to India he bought a camera for 6000 rupees. | | Examin Marks | er Only Remark |
|------|---|-----|-----------------|-------------------|
| | The exchange rate at the time was $\pounds 1 = 63.45$ rupees. | | | |
| | Work out the cost of the camera in pounds. | | | |
| | | | | |
| | Answer £ | [2] | | |
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| 10 (a) | Using only the symbols $+$ and \times , insert one into each box so that th calculation will be correct. | le <u>Exam</u> Marks | iner Only Remark |
|--------|--|-------------------------|---------------------|
| | 6 8 10 = 58 | [1] | |
| (b) | Using symbols from \times , \div , + or -, insert one into each box so that calculation will be correct. | the | |
| | You may use each symbol only once. | | |
| | 4 4 7 2 = 30 | [2] | |
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| 11 | Melissa says "Five times a number is always bigger than the number". | | Examir Marks | er Only Remark |
|----|--|-----|-----------------|-------------------|
| | Give an example to show she is wrong. | | | |
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| | | [0] | | |
| | | [2] | | |
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| (a) How much flour is need | led to make 30 biscuits? | | |
|---|--------------------------|--------------------|-------------------|
| | | | |
| | Answer | grams [1] | |
| (b) How many biscuits can there is enough milk? | be made with 175 grams | of flour, provided | |
| | | | |
| | Answer | biscuits [1] | |
| (c) A number of biscuits ar | e made using 300 grams o | f flour. | |
| How much milk is need | ed? | | |
| | Answer | millilitres [1] | |
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| 13 | (a) | Make <i>y</i> the subject | in the following equa | tion and simplify the answ | er. | Examin Marks | er Only Remark |
|------|------------|---|--|---|-----|-----------------|-------------------|
| | | | 5x - 7 = 5 - y | | | | |
| | | | | | | | |
| | | | Answer y | , = | [2] | | |
| | (b) | Which of the stater represents any who | nents below describes le number? Explain ye | the number $3n + 1$, where our answer. | e n | | |
| | | "always even" | "always odd" | "could be even or odd | " | | |
| | | Answer | | | | | |
| | | because | | | | | |
| | | | | | [2] | | |
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| 15 Solve $8x < 6 + 3x$ | | Examiner Only Marks Remark |
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| | Answer | [2] |
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