

Surname Candidate number

First name

Current school



Entrance Examination 2016

Arithmetic Section A

30 minutes

Do not open this booklet until told to do so

Calculators may not be used

Write your names, school and candidate number in the spaces provided at the top of this page.

You have 30 minutes for this paper which is worth 20 marks.

Answer all the questions, attempting them in order and writing your answers clearly. If you find that you cannot answer a question straight away leave it blank and return to it later if you have time. Try not to leave blank answer spaces at the end, instead make the best attempt at an answer that you can.

If you need to change an answer cross it out neatly and write the new answer alongside the box. You may use rough paper for working out, this will not be marked.

Marker 1	Methods Q1-10	Problems Q11-20	Marker 1 TOTAL	Marker 2 CHECK	AGREED MARK
Number Correct	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Number Wrong	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

1. Work out $983 + 254$

1	
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2. Work out 573×300

2	
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3. Write $\frac{7}{20}$ as a decimal number.

3	
---	--

4. What fraction of a day is 9 hours? Write your fraction in its simplest form.

4	
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5. What is the missing decimal number in this list
2.7, 4.3,, 7.5, 9.1

5	
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6. Work out $4\frac{1}{4} - 1\frac{3}{5}$

6	
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7. Work out $6.48 \div 0.6$, writing your answer as a decimal number.

7	
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8. Subtract the difference between 62 and 35 from the product of 13 and 6.

8	
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9. One of the angles in a triangle is 40° . One of the remaining two angles is three times larger than the other angle. What is the largest angle in the triangle?

9		°
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10. A shop reduces its prices by 20% in a sale. David bought a coat for £40 in the sale. How much would the coat have cost him **before** the sale?

10	£
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**FOR
MARKER
USE ONLY**

	Q1 - 10
Number Correct	

	Q1 - 10
Number Wrong	

18. At Frantic Junction, trains arrive at regular intervals on three different lines. On the line from Aytown, trains arrive every 15 minutes. On the line from Beeville, they arrive every 12 minutes and from Ceeford they arrive every 8 minutes. At 10.00am a train from each town arrives at Frantic Junction. What is the next time that three trains will arrive together.

18

19. Ifan has six fraction cards as shown below

$\frac{1}{24}$	$\frac{1}{12}$	$\frac{1}{8}$	$\frac{1}{6}$	$\frac{1}{4}$	$\frac{1}{3}$
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Write down a possible way in which he can add **three or more** cards to get the answer $\frac{1}{2}$

19

20. 83 is a prime number. If Nancy reverses the order of the digits she gets 38 which is not prime. How many two digit primes **do** give a different prime number when their digits are reversed?

20

This is the end of the Examination

Use any remaining time to check your work
or try any questions you have not answered.

FOR
MARKER
USE ONLY

	Q11 - 20
Number Correct	

	Q11 - 20
Number Wrong	