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## Entrance Examination 2012 Arithmetic Paper 1

## 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 the 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. Do not leave blank answer spaces, 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.


1. Work out $379+485$
2. Work out $274 \times 70$
3. Work out $2 \frac{2}{5}+3 \frac{3}{10}$

3
$\square$
$\square$
5

6 $\square$ 10 p coins does he have?
7. "Comfyclothes" in the Arndale Centre reduces its prices by $20 \%$ in its winter sale. lan bought a coat for $£ 60$ in the sale. How much would it have cost before the sale started?

7 £

8

9 £


11
12. Neil is allowed to watch three hours of TV each day in the holidays. He watches cartoons from 6.20pm to 7.10pm and a
sports programme from 7.25 pm to 9.00 pm. For how much longer could he have watched TV without breaking his rule?
13. If the following numbers were put in order which number would be in the middle?
$0.66, \frac{3}{4}, 70 \%, \frac{2}{3}, \frac{6}{10}$

## 13

12

14. Tim puts bricks which are all 2 cm by 3 cm by 4 cm into a box which is 15 cm by 20 cm by 16 cm . What is the greatest number of bricks he can put in the box?

$$
14
$$

15 month while I have had the phone?

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16
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18. Andy works out the sums of numbers as follows $1+2,1+2+3,1+2+3+4$ and so on. What is the first of these sums of numbers that is greater than 80 ?
19. How many different positive whole numbers are factors of 72 ? (remember to include 1 and 72 as factors) $\square$
20. Jo writes down a two digit number. When she reverses the digits and subtracts the smaller number from the larger number the answer she gets is 36 . What is the difference between the two digits in her original number?

## 20

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