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The 11+ Specialist

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Maths Paper Class Sample Paper

Candidate's Name: _____

Starting Time: _____ Finishing Time: _____

PAPER ANALYSIS

Candidate's Score: _____ out of 50 Percentage: _____%

Candidate's Rank: _____ out of _____ (Only the first 30)

Score for the 30th Rank _____ out of 70 Percentage: _____%

Highest Score: _____% Average Score: _____%

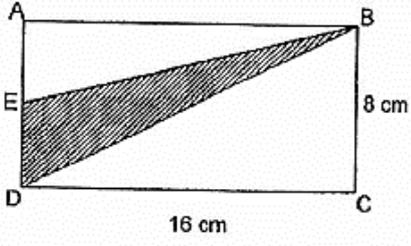
PLEASE NOTE

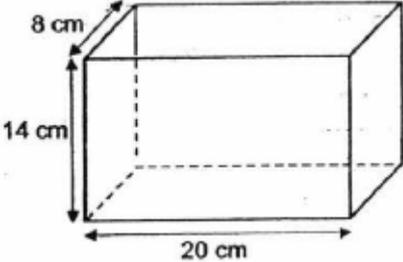
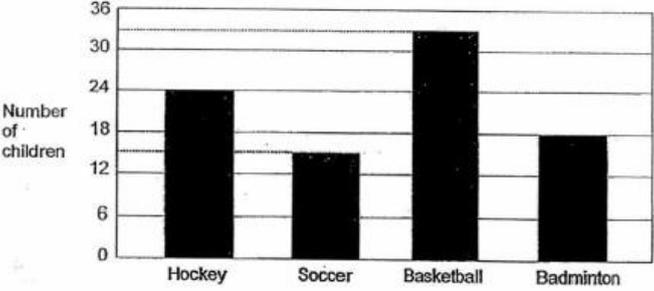
Answers for Paper Class - ____ will be available from ____ to ____ on our
website

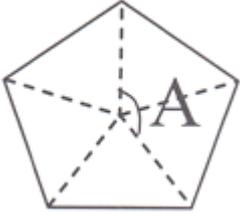
Show your workings neatly underneath the question and write the final answer in the space provided on the right.

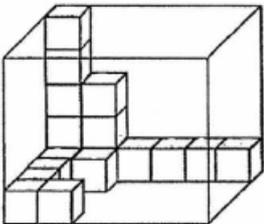
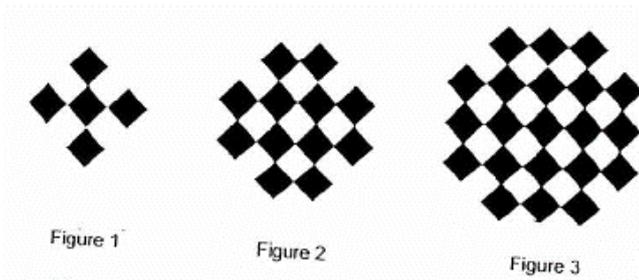
1.	Work out $6797 + 43909$	_____
2.	Find the value of 50.62×100	_____
3.	Find the product of $\frac{3}{10}$ and $\frac{8}{9}$. Express your answer as a fraction in its simplest form.	_____
4.	Express $6\frac{1}{20}$ as a decimal.	_____
5.	Find the value of $52 + 9 \div 3 - (4 \times 5)$.	_____
6.	Find the missing number. : 36 = 7 : 12	_____
7.	At a Family day, there were $\frac{5}{9}$ adult participants and the rest were children. $\frac{3}{4}$ of the children were boys. What fraction of the participants were girls?	_____
8.	There are 32 pupils in the swimming club. Given that there are 8 more boys than girls. What is the ratio of the number of girls to the number of boys? Give your answer in the simplest form.	_____
9.	330g of flour was mixed with some baking soda in the ratio of 3:5. Find the mass of the baking soda.	_____

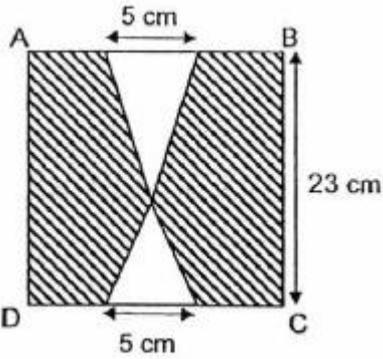
10.	15 $\frac{5}{8}$ kg of rice was packed equally into 5 bags. How many grams of rice would there be in each bag?	_____															
11.	There are four children in the Kian family. Kia is younger than Camy. William is older than Kia. John is younger than William but older than Camy. Who is the third child in the Kian family?	_____															
12.	Jeffrey bought a tennis racquet at a discount of 20%. He paid £240 for it. What was the price of the racquet at first?	_____															
13.	<p>The table shows the prices of a similar dress from two different shopping malls.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th colspan="2">Mall A</th> <th colspan="2">Mall B</th> </tr> <tr> <th>Item</th> <th>Original Price</th> <th>Discount</th> <th>Original Price</th> <th>Discount</th> </tr> </thead> <tbody> <tr> <td></td> <td>£140</td> <td>40%</td> <td>£150</td> <td>30%</td> </tr> </tbody> </table> <p>a) Which Mall sells the dress at a cheaper price?</p> <p>b) How much cheaper is the dress?</p>		Mall A		Mall B		Item	Original Price	Discount	Original Price	Discount		£140	40%	£150	30%	<p>a) _____</p> <p>b) _____</p>
	Mall A		Mall B														
Item	Original Price	Discount	Original Price	Discount													
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14.	Deena has a total amount of £4060 in £10 and £50 notes. The number of £10 notes is twice as many as the number of £50 notes. How many notes does she have?	_____															
15.	Amy bought 30m of cloth. She used $\frac{1}{5}$ of it to make some bibs and 5 $\frac{1}{2}$ m to make a table cloth. How much cloth was she left with?	_____															
16.	Nevil took 1 hour 5 minutes to travel from school to his house. If he arrived home at 1.40pm, at what time did he leave the school?	_____															

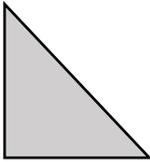
17.	Teena paid a total of £324 for 3 identical belts and 3 identical dresses. Each dress cost 8 times as much as a belt. Find the difference in price between a dress and a belt.	£ _____
18.	<p>In the figure below, ABCD is a rectangle. E is the midpoint of AD. Find the area of triangle EBD.</p> 	_____ cm ²
19.	Mrs. Bruckner measured and recorded the mass of her four students, Anne, Brian, Cindy and Dianne. The average mass of these 4 children was 49kg. The next day, Mrs. Bruckner realised that she has recorded Anne's mass wrongly. Anne's recorded mass was 8kg more than her actual mass. What was the correct average mass of the 4 students?	_____
20.	<p>There were 110 apples and 120 oranges in a basket at first. $\frac{3}{5}$ of the apples and $\frac{3}{4}$ of the oranges were used at a party.</p> <p>a) How many apples were used at the party?</p> <p>b) How many more oranges than apples were used at the party?</p>	<p>a) _____</p> <p>b) _____</p>
21.	Ricky and Shane had 80 sweets each. Ricky gave 10% of his sweets to Shane. After receiving the sweets from Ricky, Shane gave 25% of his total sweets to Ted. How many sweets had Shane left?	_____

22.	<p>Rebecca mixed 2 bottle of orange juice, 3 cans of soda water and 4 cartons of pineapple juice to create her fruit punch for her birthday party. What was the total volume of the fruit punch in litres?</p> <div style="display: flex; justify-content: space-around; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;">  <p>Orange juice 1.5 ℓ</p> </div> <div style="text-align: center;">  <p>Soda water 325 m ℓ</p> </div> <div style="text-align: center;">  <p>Pineapple juice 750 cm³</p> </div> </div>	<hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>
23.	<p>Chaplin poured 8 cups of water into an empty rectangular tank as shown below. The volume of water in each cup was 30cm³. How much more water was needed to fill the tank to the brim? _____ cm³</p> <div style="text-align: center; margin-top: 20px;">  </div>	<hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>
24.	<p>Pem has 35 pieces of wire; each piece is $\frac{5}{8}$ m long. Find the total length of 40 pieces of wire.</p>	<hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>
25.	<p>The graph below shows the types of sports that children play in AtoZ Primary School.</p> <div style="text-align: center; margin-top: 20px;">  </div> <p>What percentage of the children play badminton?</p>	<hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>

26.	<p>What is the size of angle A in this regular pentagon?</p> 	_____																
27.	<p>Laura baked a 15kg cake for her birthday party. Her children ate $\frac{3}{5}$ of it and she gave $1\frac{3}{5}$ kg to the neighbour. Find the mass of the cake she had left?</p>	_____																
28.	<p>The table below shows how much time Michael spends using his game console each day.</p> <table border="1" data-bbox="280 871 1003 1184"> <thead> <tr> <th>Day</th> <th>Time spent on console</th> </tr> </thead> <tbody> <tr> <td>Monday</td> <td>$\frac{3}{4}$ hrs</td> </tr> <tr> <td>Tuesday</td> <td>1 hr 20 mins</td> </tr> <tr> <td>Wednesday</td> <td>2 hrs 10 mins</td> </tr> <tr> <td>Thursday</td> <td>1 hr 20 mins</td> </tr> <tr> <td>Friday</td> <td>$2\frac{2}{3}$ hrs</td> </tr> <tr> <td>Saturday</td> <td>3 hrs 15 mins</td> </tr> <tr> <td>Sunday</td> <td>2 hrs 45 mins</td> </tr> </tbody> </table> <p>What is the range?</p>	Day	Time spent on console	Monday	$\frac{3}{4}$ hrs	Tuesday	1 hr 20 mins	Wednesday	2 hrs 10 mins	Thursday	1 hr 20 mins	Friday	$2\frac{2}{3}$ hrs	Saturday	3 hrs 15 mins	Sunday	2 hrs 45 mins	_____
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29.	<p>The area of a square land is 196 square metres. What is the perimeter of the land?</p>	_____																
30.	<p>Henry went to the gym once every 4 days while Vincent went to the same gym once every 6 days. They became friends after meeting each other at the gym on a Saturday. When would they next see each other at the gym, assuming they maintain the same pattern?</p>	_____																

31.	Charlotte has 8 bottles of apple juice. Each bottle contains 340 ml of apple juice. What is the total volume of the apple juice that Charlotte has? Express your answer in litres.	_____
32.	Margaret spent $\frac{1}{3}$ of her savings on a pair of shoes and $\frac{1}{4}$ of the remainder on a jersey. If she spent £68.90 on her jersey, what was her savings?	_____
33.	<p>The figure below shows a rectangular glass box partly filled with unit cubes. How many more unit cubes must be added to the glass box for it to be completely filled with unit cubes?</p> 	_____
34.	Rachael is going to cut a stick 100 cm long into pieces. If she cuts it into ten equal pieces, how long is each piece in mm?	_____
35.	<p>Study the pattern below. The figures are made up of black diamonds.</p> <p>Each black Diamond is denoted by </p>  <p>Figure 1 Figure 2 Figure 3</p> <p>How many black diamonds will there be in figure 4?</p>	_____

36.	The children at a summer camp are divided equally into two teams. The ratio of the number of boys to the number of girls in team A and B are 1:2 and 5:4 respectively. What is the ratio of the number of boys to the number of girls at the Summer camp?	_____
37.	600 stickers were sold by 15 students in one school. On average how many stickers did each student sell?	_____
38.	Last year, 108 pupils participated in a Science quiz where there were gold, silver or bronze awards to be won. $\frac{2}{3}$ of the pupils won either a gold or silver award. 14 of them won bronze awards. How many pupils did not win an award?	_____
39.	What is the lowest common multiple of 11 and 6?	_____
40.	<p>In the figure below, ABCD is a square of side 23cm. Find the total area of the shaded parts.</p> 	_____
41.	What number between 400 and 500 divides exactly by 2, 3 and 11?	_____

42.	<p>What is the time shown in the clock?</p> 	_____									
43.	<p>Find the missing number below.</p> <table border="1" data-bbox="277 703 544 931"> <tbody> <tr> <td>4</td> <td>12</td> <td>20</td> </tr> <tr> <td>5</td> <td>10</td> <td>15</td> </tr> <tr> <td>6</td> <td></td> <td>18</td> </tr> </tbody> </table>	4	12	20	5	10	15	6		18	_____
4	12	20									
5	10	15									
6		18									
44.	<p>In a right-angled triangle one angle is 60 degrees. What is the smallest angle of the triangle?</p> 	_____									
45.	<p>The average weight of five steel balls is 3.7kg. Four of the steel balls are identical and each weigh 3.5kg. What is the weight of the fifth steel ball?</p>	_____									
46.	<p>Neil thought of a number. He added 4 and then multiplied by 3. He added 6 to his answer and then divided by 4 to get 9. What number did Neil first think of?</p>	_____									

47.	<p>A list of 13 numbers has an average of 330. When two numbers are removed from the list, the average of the remaining numbers is 313.</p> <p>a) What is the sum of 13 numbers?</p> <p>b) What are the two numbers that have been removed given that the difference between the two numbers is 1?</p>	<p>a) _____</p> <p>b) _____</p>
48.	<p>How much is $\frac{3}{4}$ of $\frac{2}{5}$ of £1?</p>	<p>_____</p>
49.	<p>Add together the three lengths 1.4m, 33cm and 580mm. Give your answer in cm.</p>	<p>_____</p>
50.	<p>In a supermarket, a box of chocolates cost £7.50. For every 10 boxes of chocolates purchased, an additional box of chocolates was given free. Timothy made his purchase and left the Supermarket with 47 boxes of chocolates. How much did Timothy pay in total?</p>	<p>£ _____</p>