

City of London School for Girls

YEAR 7 ENTRANCE EXAMINATION MATHEMATICS

SAMPLE Paper

Time Allowed: 1 hour 15 minutes

First Name:

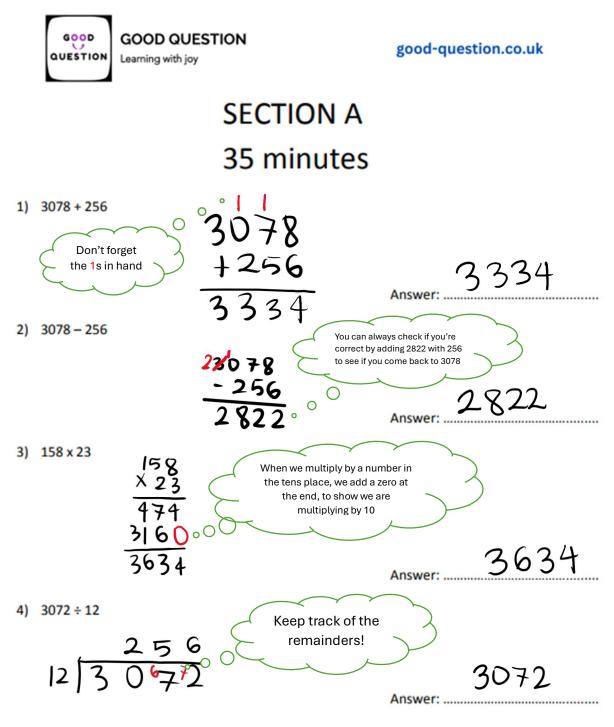
Surname:

Instructions:

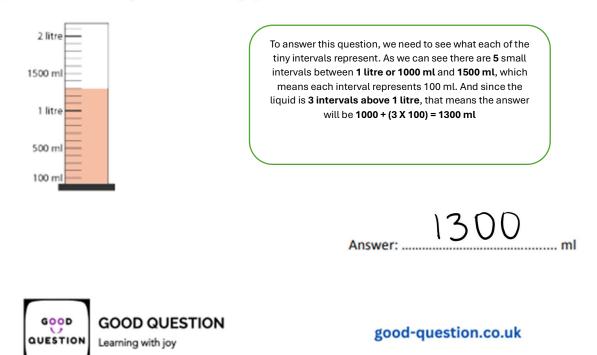
- Do write in pencil
- Do try as many questions as you can
- If you cannot answer a question, go on to the next one
- Do write your working out in the space near each question
- Do not erase your working out as you may get marks for it
- Calculators and rulers are NOT allowed
- You will be given 35 minutes to complete section A. You will hand in section A before being given section B. You will then have 40 minutes to complete section B.



GOOD QUESTION

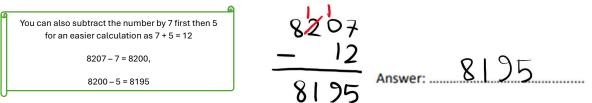


5) What is the reading on the measuring cylinder





6) What number is twelve less than eight thousand two hundred and seven?

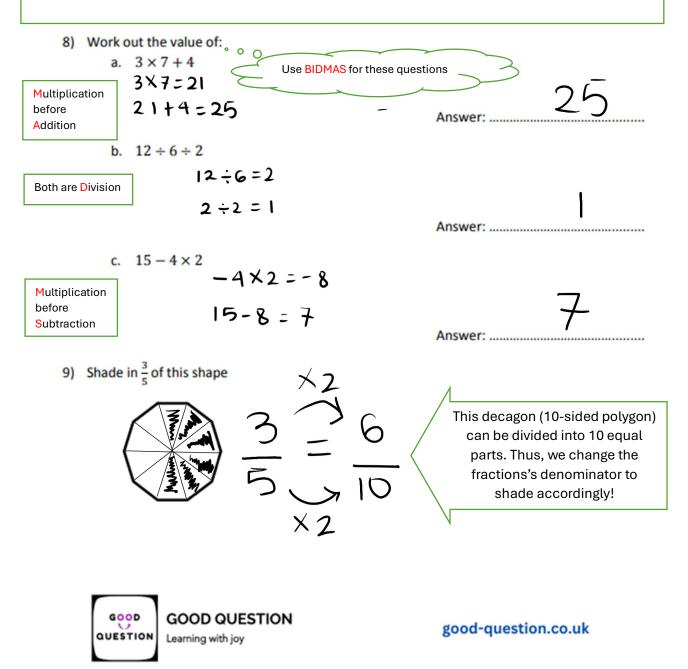


7) Both of these nets fold to make a cube.

Shade the square that will be opposite the black square when the net is folded into a cube.

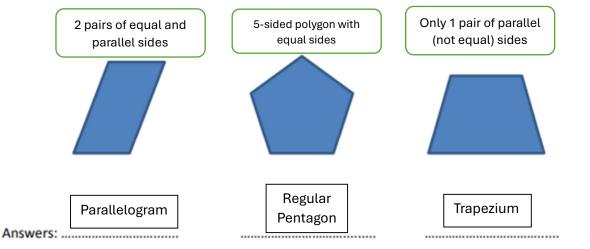


Each face in a cube has 4 adjacent and 1 opposite face, thus the opposite faces don't share any edges. Try folding the cube net mentally and shade the square opposite to the black square.





10) Write down the mathematical name for each of these 2D shapes:



11) Here is a table showing how many minutes four children took to get to school last week

	Maxine	Ava	Ellie	Sara
Monday	23	14	12	19
Tuesday	24	17	15	25
Wednesday	31	11	18	41
Thursday	26	16	12	22
Friday	19	16	16	23

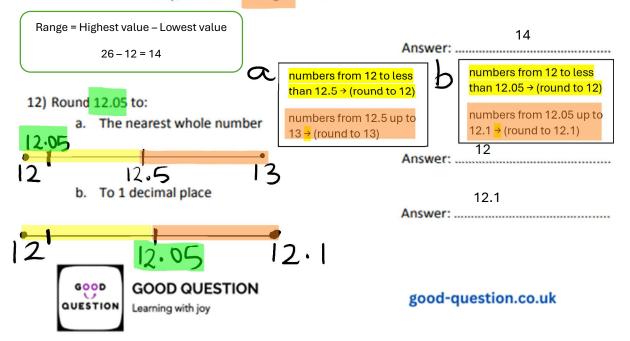
a. Who took over 40 minutes to get to school?

	Sara	
	Answer:	
h person has the shortest journey to school	Sveb vac ao lo	

b. Which person has the shortest journey to school on any day?

Ava Answer:

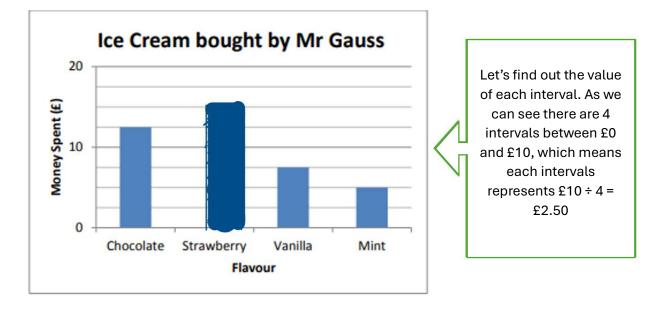
c. On Thursday, what is the range of the times?





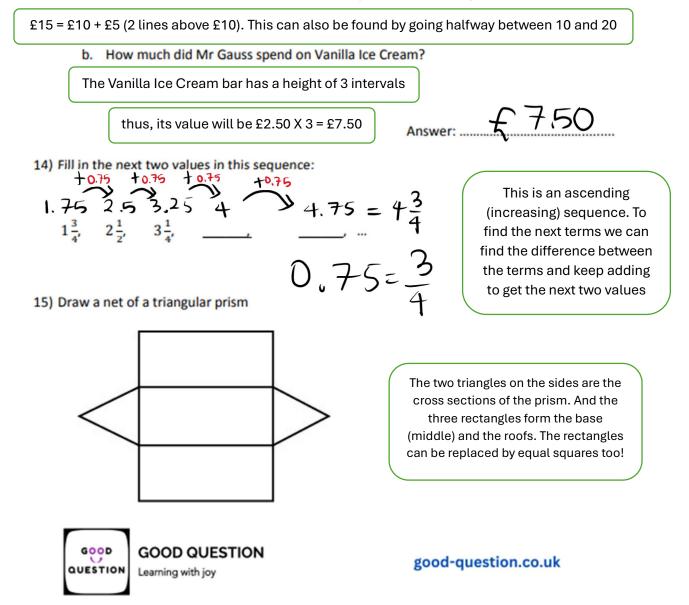
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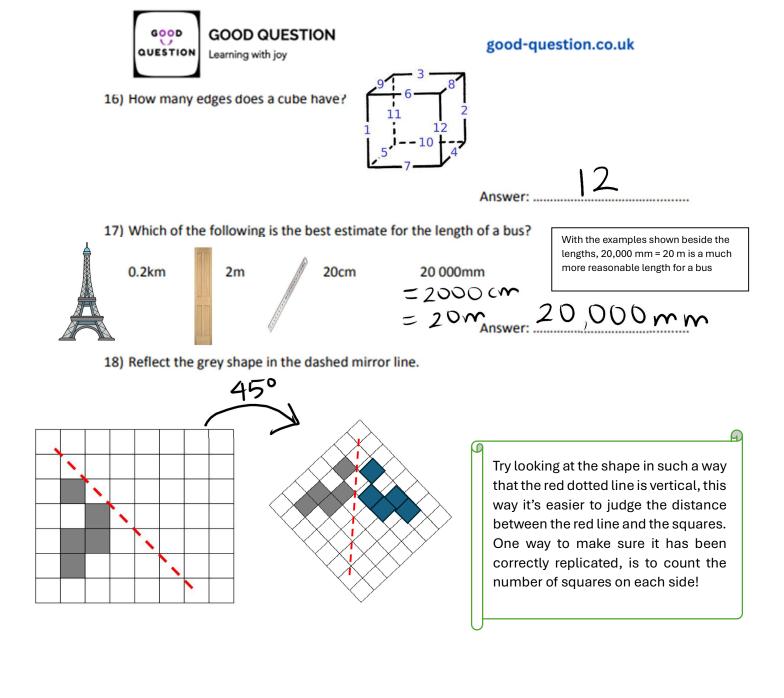
13) Here is a bar chart.



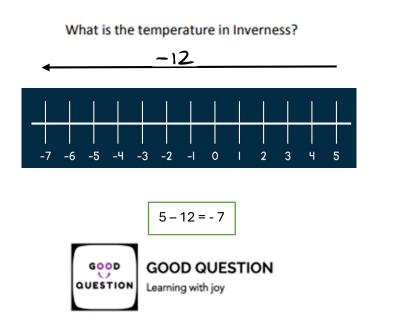
The bar for strawberry is missing! Mr Gauss spent £15 on Strawberry ice cream.

a. Draw a bar to show how much Mr Gauss spent on Strawberry ice cream.





19) The temperature in Inverness is 12 degrees lower than the temperature in London. The temperature in London is 5 degrees.



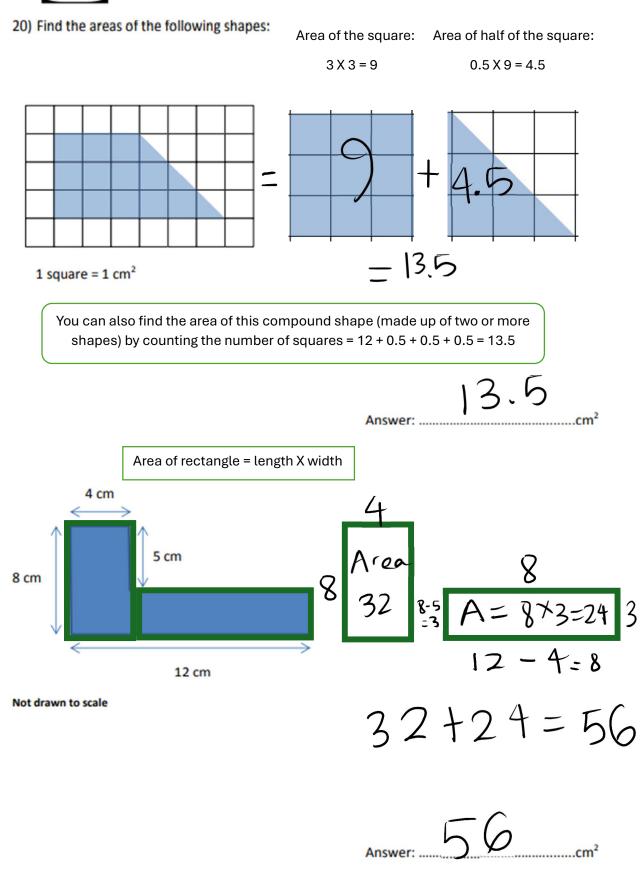
Temperatures can be negatives so don't worry on getting -7 degrees as the answer :)

For a better understanding here is a number line:

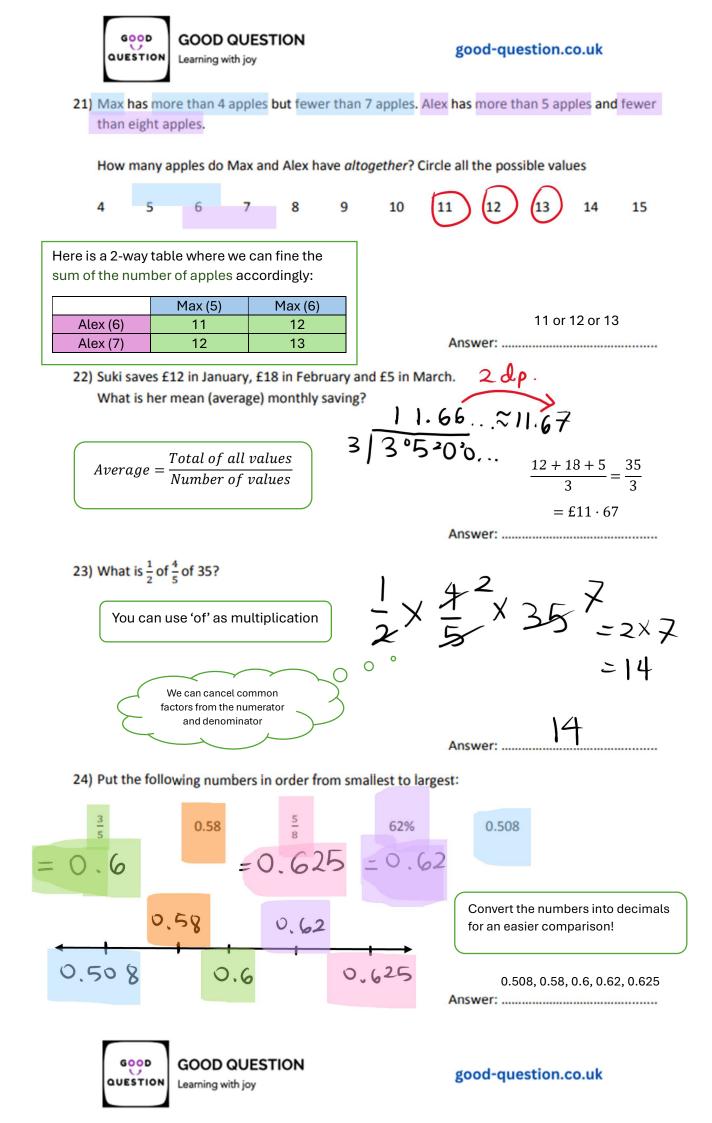
-7 degrees
Answer:

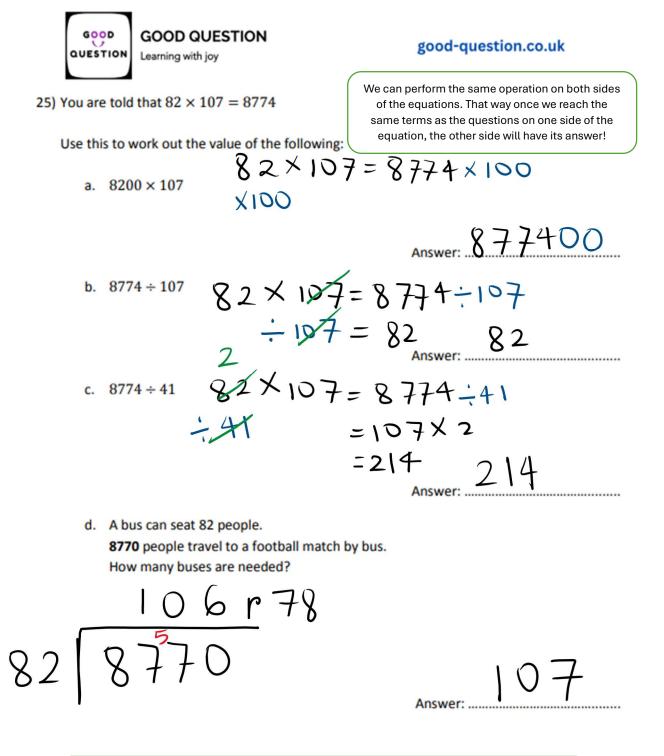


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Since there is a remainder of 78, this means 106 buses are not enough and we need one extra bus for the 78 people left. Thus, the answer will be 106 + 1 = 107

