Circle your answer.

1. What is the next number in the following pattern? 9, 12, 15, 18
   A. 54   B. 32   C. 21   D. 23

2. What is the rise in temperature from -1°C to 8°C
   A. 13 °C   B. 9°C   C. -3°C   D. 7°C

3. One of the following is the same as 200cm. Which one?
   A. 0.2m   B. 2m   C. 20m   D. 2km

4. Write 180 seconds in minutes.
   A. 3   B. 4   C. 2   D. 5

5. The sum of two numbers is 14 and their difference is 4. What are the two numbers?
   A. 3 and 11   B. 4 and 8   C. 4 and 10   D. 5 and 9

(1 mark each) -------

5
Circle your answer.

6. $7 \times 6 =$
   - A. 41
   - B. 17
   - C. 42
   - D. 24

7. $0.2 + 1.8 =$
   - A. 1.0
   - B. 2.0
   - C. 20
   - D. 0.20

8. Which is the smallest number in this list: 0.83, 0.8, 0.08, 1.80
   - A. 0.83
   - B. 0.8
   - C. 0.08
   - D. 1.80

9. $81 + \odot = 27$ What number is \odot?
   - A. 9
   - B. 3
   - C. 1.8
   - D. 21

10. $\frac{1}{2}$ of a number is 18. What is the number?
    - A. 54
    - B. 9
    - C. 36
    - D. 36

(1 mark each)
<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>11.</strong></td>
<td>+177</td>
<td><strong>12.</strong></td>
<td>592 x 5</td>
</tr>
<tr>
<td><strong>24</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>13.</strong></td>
<td>290</td>
<td><strong>14.</strong></td>
<td>2979 ÷ 4</td>
</tr>
<tr>
<td></td>
<td>- 84</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(2 marks each)

8
15. Megan scored 18 out of 20 in a mental arithmetic test and 19 out of 30 in problem solving.

   a) What overall mark did she score out of 50? ________ (2 marks)

   b) What was her percentage? ________ (2 marks)

16. Look at the following numbers.

   21, 22, 23, 24, 25, 26, 27, 28, 29, 30

Write down which of them are:

   a) Even numbers ____________________________ (2 marks)

   b) Factors of 100 ___________________________ (2 marks)

   c) Multiples of 3 ____________________________ (2 marks)

17. A length of string is 65 centimetres long and is cut into 10 equal pieces.

   a) How long is each piece of string in **centimetres**?

      _________ cm  (2 marks)

   b) How long is each small piece of string in **millimetres**?

      _________ mm  (2 marks)
18. (a) Draw lines of symmetry on the following two shapes. (2 marks)
(b) Work out their perimeters. (2 marks)

Perimeter = ____________

Perimeter = ____________
19.

When I input the number 2 into the number machine, my answer is 5. Look what happens to all the numbers I input in to my machine.

<table>
<thead>
<tr>
<th>INPUT</th>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>?</td>
</tr>
</tbody>
</table>

(a) What will the output be when I input 5?

(b) Can you work out the rule for finding how any number I input is changed?

---

(2 marks)
20.

a) Shade in **6 tenths** of this circle?  

b) Now shade in **2 fifths** of this circle?  

c) If you subtracted **2 fifths** from **6 tenths** how many **fifths** would be left?

_________________________ fifths  

--------

6
21.

Look at the graph below to see how much rain fell in London during a week.

a) If 175 mm of rain was recorded in London last week, how much rain fell on Tuesday?
   __________ mm (2 marks)

b) Shade in the graph below to indicate this. (2 marks)