

**MATHEMATICS WITHOUT BORDERS**

**FINAL 2019**

**ANSWER KEY - AGE GROUPS 5 - 9**

<b>Age group Problem</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>1</b>	1	-25	4	-2	23
<b>2</b>	$\frac{2}{9}$	7 and 8	100	34	100
<b>3</b>	8	43.75	10	80	$100\sqrt{2}$
<b>4</b>	101.15	$-\frac{5}{6}$	110	34	5
<b>5</b>	5	29	8	72	7
<b>6</b>	70 or 98	-27	9	1	2001
<b>7</b>	172	41	1	1	1
<b>8</b>	44	674	28 or 64	10	8
<b>9</b>	1	18	18	28 or 64	4
<b>10</b>	9	70 or 98	11	2	28 or 64
<b>11</b>	63	56	4 or 5	126	$\frac{3}{7}$
<b>12</b>	3 or 4	2019	72	1.6	$\frac{1}{4}$ $\frac{3\sqrt{2} + 2\sqrt{3}}{8}$
<b>13</b>	5	2	$1111\frac{1}{9}$	6	$\frac{7\sqrt{2}}{2}$
<b>14</b>	1, 2, 4, 8, 16	2	90	$\sqrt{5}$	2.4
<b>15</b>	178	20	30	60	$M(3; 2)$
<b>16</b>	18.15	3 and 4 or 1, 2, 3 and 4	56	56	20
<b>17</b>	75	18	402	3	3
<b>18</b>	16	16	2	$n \geq 3$	56
<b>19</b>	31	5	$n \geq 3$	625 and 376	625 and 376
<b>20</b>	7	1, 3, 9, 27, 81	4995	7	5