Evaluate each expression. Using Order of Operations

<table>
<thead>
<tr>
<th></th>
<th>Expression</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>5 + (9 + 6³ - 3) - 3</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>10 + (6 × 5) + 9³ × 8</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3 + (5 + 6 + 9) + 7</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2 + 4³ × 4 + (2 × 9)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(5 + 36 ÷ 4) + 4 ÷ 2</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2 + (5 × 4) - 7 + 2</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(3 + 8) + 42 ÷ 7 × 2</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>9 × 2 + (5³ × 5) + 60 ÷ 10</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>(9 + 9 + 7³) - 4 + 9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>10 + (9 × 6) + 4 - 4</td>
<td></td>
</tr>
</tbody>
</table>

**Answers**

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>2</td>
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<tr>
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<td>9</td>
<td></td>
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<tr>
<td>10</td>
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</tbody>
</table>
Evaluate each expression.

1) \(5 + (9 + 6^3 - 3) - 3\)
   \(5 + (9 + 216 - 3) - 3\)
   \(5 + 222 - 3\)
   \(224\)

2) \(10 + (6 \times 5) + 9^3 \times 8\)
   \(10 + 30 + 729 \times 8\)
   \(10 + 30 + 5832\)
   \(40 + 5832\)
   \(5872\)

3) \(3 + (5 + 6 + 9) + 7\)
   \(3 + (11 + 9) + 7\)
   \(3 + 20 + 7\)
   \(23 + 7\)
   \(30\)

4) \(2 + 4^3 \times 4 + (2 \times 9)\)
   \(2 + 64 \times 4 + 18\)
   \(2 + 256 + 18\)
   \(258 + 18\)
   \(276\)

5) \((5 + 36 \div 4) + 4 \div 2\)
   \((5 + 9) + 4 \div 2\)
   \(14 \div 2\)
   \(14 + 2\)
   \(16\)

6) \(2 + (5 \times 4) - 7 + 2\)
   \(2 + 20 - 7 + 2\)
   \(22 - 7 + 2\)
   \(15 + 2\)
   \(17\)

7) \((3 + 8) + 42 \div 7 \times 2\)
   \(11 + 42 \div 7 \times 2\)
   \(11 + 6 \times 2\)
   \(11 + 12\)
   \(23\)

8) \(9 \times 2 + (5^3 \times 5) + 60 \div 10\)
   \(9 \times 2 + (125 \times 5) + 60 \div 10\)
   \(9 \times 2 + 625 + 60 \div 10\)
   \(18 + 625 + 60 \div 10\)
   \(18 + 625 + 6\)
   \(643 + 6\)
   \(649\)

9) \((9 + 9 + 7^3) - 4 + 9\)
   \((9 + 9 + 343) - 4 + 9\)
   \((18 + 343) - 4 + 9\)
   \(361 - 4 + 9\)
   \(357 + 9\)
   \(366\)

10) \(10 + (9 \times 6) + 4 - 4\)
    \(10 + 54 + 4 - 4\)
    \(64 + 4 - 4\)
    \(68 - 4\)
    \(64\)
Evaluate each expression.

Using Order of Operations

<table>
<thead>
<tr>
<th></th>
<th>1) (5 + (9 + 6^3 - 3) - 3)</th>
<th>2) (10 + (6 \times 5) + 9^3 \times 8)</th>
<th>3) (3 + (5 + 6 + 9) + 7)</th>
<th>4) (2 + 4^3 \times 4 + (2 \times 9))</th>
<th>5) ((5 + 36 \div 4) + 4 \div 2)</th>
<th>6) (2 + (5 \times 4) - 7 + 2)</th>
<th>7) (3 + 8 + 42 \div 7 \times 2)</th>
<th>8) (9 \times 2 + (5^3 \times 5) + 60 \div 10)</th>
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<tr>
<td></td>
<td>649</td>
<td>5,872</td>
<td>16</td>
<td>17</td>
<td>23</td>
<td>30</td>
<td>276</td>
<td>224</td>
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</table>

**Answers**

<table>
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<th>1. ___________</th>
<th>2. ___________</th>
<th>3. ___________</th>
<th>4. ___________</th>
<th>5. ___________</th>
<th>6. ___________</th>
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</table>
Evaluate each expression.
Using Order of Operations

1) $10 \times 5 + 4^2 + (5 + 30 \div 10)$

2) $3 + 7^3 + (9 + 63 \div 9)$

3) $8 + (30 \div 3 + 4^2) + 7$

4) $8 + 7^2 + (8 - 2) + 24 \div 3$

5) $7 + (8 \times 9 + 7 + 70 \div 10)$

6) $7 + (30 \div 6 + 36 \div 4)$

7) $(4 \times 3 \times 8 + 9 + 9)$

8) $4 + (3 - 2) - 2 + 10$

9) $(3 \times 6 + 40 \div 4 + 2^2)$

10) $(6 + 4 + 9) + 6^3 - 7$
# Evaluate each expression.

Using Order of Operations

<table>
<thead>
<tr>
<th></th>
<th>Using Order of Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Evaluate each expression.</strong></td>
<td><strong>Answers</strong></td>
</tr>
<tr>
<td>1) (10 \times 5 + 4^2 + (5 + 30 \div 10))</td>
<td>1. (74)</td>
</tr>
<tr>
<td>(10 \times 5 + 4^2 + (5 + 3))</td>
<td>(3 + 7^3 + (9 + 63 \div 9))</td>
</tr>
<tr>
<td>(10 \times 5 + 4^2 + 8)</td>
<td>(3 + 7^3 + (9 + 7))</td>
</tr>
<tr>
<td>(10 \times 5 + 16 + 8)</td>
<td>(346 + 16)</td>
</tr>
<tr>
<td>(50 + 16 + 8)</td>
<td></td>
</tr>
<tr>
<td>(66 + 8)</td>
<td></td>
</tr>
<tr>
<td>(74)</td>
<td></td>
</tr>
<tr>
<td>2) (3 + 7^3 + (9 + 63 \div 9))</td>
<td>4. (71)</td>
</tr>
<tr>
<td>(8 + (30 \div 3 + 4^2) + 7)</td>
<td>5. (93)</td>
</tr>
<tr>
<td>(8 + (30 \div 3 + 16) + 7)</td>
<td>6. (21)</td>
</tr>
<tr>
<td>(8 + (10 + 16) + 7)</td>
<td>7. (114)</td>
</tr>
<tr>
<td>(8 + 26 + 7)</td>
<td>8. (13)</td>
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<tr>
<td>(34 + 7)</td>
<td>9. (32)</td>
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<tr>
<td>(41)</td>
<td>10. (228)</td>
</tr>
<tr>
<td>3) (8 + (30 \div 3 + 4^2) + 7)</td>
<td></td>
</tr>
<tr>
<td>(8 + (30 \div 3 + 16) + 7)</td>
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</tr>
<tr>
<td>(8 + (10 + 16) + 7)</td>
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<tr>
<td>(8 + 26 + 7)</td>
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<tr>
<td>(34 + 7)</td>
<td></td>
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<tr>
<td>(41)</td>
<td></td>
</tr>
<tr>
<td>4) (8 + 7^2 + (8 - 2) + 24 \div 3)</td>
<td></td>
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<tr>
<td>(8 + 7^2 + 6 + 24 \div 3)</td>
<td></td>
</tr>
<tr>
<td>(8 + 49 + 6 + 24 \div 3)</td>
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<tr>
<td>(8 + 49 + 6 + 8)</td>
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<tr>
<td>(57 + 6 + 8)</td>
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<tr>
<td>(63 + 8)</td>
<td></td>
</tr>
<tr>
<td>(71)</td>
<td></td>
</tr>
<tr>
<td>5) (7 + (8 \times 9 + 7 + 70 \div 10))</td>
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<tr>
<td>(7 + (72 + 70 \div 10))</td>
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<td>(7 + (72 + 7 + 7))</td>
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<td>(7 + (79 + 7))</td>
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<td>(7 + 86)</td>
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<td>(93)</td>
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</tr>
<tr>
<td>6) (7 + (30 \div 6 + 36 \div 4))</td>
<td></td>
</tr>
<tr>
<td>(7 + (5 + 36 \div 4))</td>
<td></td>
</tr>
<tr>
<td>(7 + (5 + 9))</td>
<td></td>
</tr>
<tr>
<td>(7 + 14)</td>
<td></td>
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<tr>
<td>(21)</td>
<td></td>
</tr>
<tr>
<td>7) ((4 \times 3 \times 8 + 9 + 9))</td>
<td></td>
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<tr>
<td>((12 \times 8 + 9 + 9))</td>
<td></td>
</tr>
<tr>
<td>((96 + 9 + 9))</td>
<td></td>
</tr>
<tr>
<td>((105 + 9))</td>
<td></td>
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<tr>
<td>(114)</td>
<td></td>
</tr>
<tr>
<td>8) (4 + (3 - 2) - 2 + 10)</td>
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<td>(4 + 1 - 2 + 10)</td>
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</tr>
<tr>
<td>(5 - 2 + 10)</td>
<td></td>
</tr>
<tr>
<td>(3 + 10)</td>
<td></td>
</tr>
<tr>
<td>(13)</td>
<td></td>
</tr>
<tr>
<td>9) ((3 \times 6 + 40 \div 4 + 2^2))</td>
<td></td>
</tr>
<tr>
<td>((3 \times 6 + 40 \div 4 + 4))</td>
<td></td>
</tr>
<tr>
<td>((18 + 40 \div 4 + 4))</td>
<td></td>
</tr>
<tr>
<td>((18 + 10 + 4))</td>
<td></td>
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<tr>
<td>((28 + 4))</td>
<td></td>
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<tr>
<td>(32)</td>
<td></td>
</tr>
<tr>
<td>10) ((6 + 4 + 9) + 6^3 - 7)</td>
<td></td>
</tr>
<tr>
<td>((10 + 9) + 6^3 - 7)</td>
<td></td>
</tr>
<tr>
<td>(19 + 6^3 - 7)</td>
<td></td>
</tr>
<tr>
<td>(19 + 216 - 7)</td>
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</tr>
<tr>
<td>(235 - 7)</td>
<td></td>
</tr>
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<td>(228)</td>
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</tbody>
</table>
Evaluate each expression.

Using Order of Operations

<table>
<thead>
<tr>
<th></th>
<th>21</th>
<th>74</th>
<th>114</th>
<th>41</th>
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<tbody>
<tr>
<td></td>
<td>362</td>
<td>13</td>
<td>71</td>
<td>93</td>
</tr>
</tbody>
</table>

1) \(10 \times 5 + 4^2 + (5 + 30 \div 10)\)  
2) \(3 + 7^3 + (9 + 63 \div 9)\)

3) \(8 + (30 \div 3 + 4^2) + 7\)  
4) \(8 + 7^2 + (8 - 2) + 24 \div 3\)

5) \(7 + (8 \times 9 + 7 + 70 \div 10)\)  
6) \(7 + (30 \div 6 + 36 \div 4)\)

7) \((4 \times 3 \times 8 + 9 + 9)\)  
8) \(4 + (3 - 2) - 2 + 10\)

Answers

1. ________  
2. ________  
3. ________  
4. ________  
5. ________  
6. ________  
7. ________  
8. ________
Evaluate each expression.

1) \(8 \times 2 + (54 \div 6 + 5)\)
   \(8 \times 2 + (9 + 5)\)
   \(8 \times 2 + 14\)
   \(16 + 14\)
   \(30\)

2) \(8 + (4 + 6 + 2) + 8^2\)
   \(8 + (10 + 2) + 8\)
   \(8 + 12 + 8\)
   \(20 + 64\)
   \(84\)

3) \((7 + 8) + 2^3 \times 6 - 7\)
   \(15 + 2\)
   \(15 + 8 \times 6 - 7\)
   \(15 + 48 - 7\)
   \(63 - 7\)
   \(56\)

4) \(8 + (5^3 + 2) - 7 - 9\)
   \(8 + (125 + 2) - 7 - 9\)
   \(8 + 127 - 7 - 9\)
   \(135 - 7 - 9\)
   \(128 - 9\)
   \(119\)

5) \((2 \times 6) - 7 + 9^2 + 45 \div 5\)
   \(12 - 7 + 9\)
   \(12 - 7 + 81 + 45 \div 5\)
   \(12 - 7 + 81 + 9\)
   \(5 + 81 + 9\)
   \(86 + 9\)
   \(95\)

6) \((2 + 5 + 10^2 + 7)\)
   \((2 + 5 + 10 + 7)\)
   \((7 + 10 + 49 - 4)\)
   \((10 + 100 + 49 - 4)\)
   \((156 - 4)\)
   \(152\)

7) \(10 + (8 + 10^2) \times 8 \times 2\)
   \(10 + (8 + 512) \times 8 \times 2\)
   \(10 + 519 \times 8 \times 2\)
   \(10 + 1728 \times 2\)
   \(10 + 3456\)
   \(3566\)

8) \(3 \times 5 \times 5 + (7 + 8^3)\)
   \(3 \times 5 \times 5 + (7 + 512)\)
   \(3 \times 5 \times 5 + 519\)
   \(15 \times 5 + 519\)
   \(75 + 519\)
   \(594\)

9) \(10 - 8 + (6 \times 7) - 9\)
   \(2 + 42 - 9\)
   \(44 - 9\)
   \(35\)

10) \((5 + 5^2 + 40 \div 10 - 9)\)
    \((5 + 25 + 40 \div 10 - 9)\)
    \((5 + 25 + 4 - 9)\)
    \((30 + 4 - 9)\)
    \((34 - 9)\)
    \(25\)
Evaluate each expression.

<table>
<thead>
<tr>
<th>Number</th>
<th>Expression</th>
<th>Step 1</th>
<th>Step 2</th>
<th>Step 3</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$8 \times 2 + (54 \div 6 + 5)$</td>
<td>$8 \times 2 + (9 + 5)$</td>
<td>$8 \times 2 + 14$</td>
<td>$16 + 14$</td>
<td>$30$</td>
</tr>
<tr>
<td>2</td>
<td>$8 + (4 + 6 + 2) + 8^2$</td>
<td>$8 + (10 + 2) + 8^2$</td>
<td>$8 + 12 + 8^2$</td>
<td>$8 + 12 + 64$</td>
<td>$20 + 64$</td>
</tr>
<tr>
<td>3</td>
<td>$(7 + 8) + 2^3 \times 6 - 7$</td>
<td>$15 + 2^3 \times 6 - 7$</td>
<td>$15 + 8 \times 6 - 7$</td>
<td>$15 + 48 - 7$</td>
<td>$63 - 7$</td>
</tr>
<tr>
<td>4</td>
<td>$8 + (5^2 + 2) - 7 - 9$</td>
<td>$8 + (125 + 2) - 7 - 9$</td>
<td>$8 + 127 - 7 - 9$</td>
<td>$135 - 7 - 9$</td>
<td>$128 - 9$</td>
</tr>
<tr>
<td>5</td>
<td>$(2 \times 6) - 7 + 9^2 + 45 \div 5$</td>
<td>$12 - 7 + 9^2 + 45 \div 5$</td>
<td>$12 - 7 + 81 + 45 \div 5$</td>
<td>$12 - 7 + 81 + 9$</td>
<td>$5 + 81 + 9$</td>
</tr>
<tr>
<td>6</td>
<td>$(2 + 5 + 10^2 + 7^2) - 4)$</td>
<td>$(2 + 5 + 100 + 7^2 - 4)$</td>
<td>$(2 + 5 + 100 + 49 - 4)$</td>
<td>$(7 + 100 + 49 - 4)$</td>
<td>$(107 + 49 - 4)$</td>
</tr>
<tr>
<td>7</td>
<td>$10 + (8 + 10^2) \times 8 \times 2$</td>
<td>$10 + (8 + 100) \times 8 \times 2$</td>
<td>$10 + 108 \times 8 \times 2$</td>
<td>$10 + 864 \times 2$</td>
<td>$10 + 1728$</td>
</tr>
<tr>
<td>8</td>
<td>$3 \times 5 \times 5 + (7 + 8^3)$</td>
<td>$3 \times 5 \times 5 + (7 + 512)$</td>
<td>$3 \times 5 \times 5 + 519$</td>
<td>$15 \times 5 + 519$</td>
<td>$75 + 519$</td>
</tr>
<tr>
<td>9</td>
<td>$10 - 8 + (6 \times 7) - 9$</td>
<td>$10 - 8 + 42 - 9$</td>
<td>$2 + 42 - 9$</td>
<td>$44 - 9$</td>
<td>$35$</td>
</tr>
<tr>
<td>10</td>
<td>$(5 + 5^2 + 40 \div 10 - 9)$</td>
<td>$(5 + 25 + 40 \div 10 - 9)$</td>
<td>$(5 + 25 + 4 - 9)$</td>
<td>$(30 + 4 - 9)$</td>
<td>$(34 - 9)$</td>
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</tbody>
</table>
Evaluate each expression. Using Order of Operations

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<tr>
<th></th>
<th>84</th>
<th>119</th>
<th>30</th>
<th>56</th>
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<tbody>
<tr>
<td>1.</td>
<td>8×2+(54÷6+5)</td>
<td>8×2+(9+5)</td>
<td>8×2+14</td>
<td>16+14</td>
</tr>
<tr>
<td>2.</td>
<td>8+(4+6+2)+8²</td>
<td>8+(10+2)+8²</td>
<td>8+12+8²</td>
<td>8+12+64</td>
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<tr>
<td>3.</td>
<td>(7+8)+2³×6-7</td>
<td>8+(5³+2)-7-9</td>
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</tr>
<tr>
<td>4.</td>
<td>(2×6)-7+9²+45÷5</td>
<td>(2+5+10²+7²-4)</td>
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<td></td>
</tr>
<tr>
<td>5.</td>
<td>10+(8+10²)×8×2</td>
<td>3×5×5+(7+8³)</td>
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<td></td>
</tr>
<tr>
<td>6.</td>
<td>1,738</td>
<td>95</td>
<td>152</td>
<td>594</td>
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</table>

**Answers**

1. ________
2. ________
3. ________
4. ________
5. ________
6. ________
7. ________
8. ________
Evaluate each expression.

1) \((5 \times 2 + 10^3) + 10 + 7\)  
2) \(10 + (4 + 8^3) \times 2 + 3\)

3) \(8 + (8 + 8 \div 4) + 5^2\)  
4) \(7 + 16 \div 8 + (3^3 + 8)\)

5) \(9 + 5^3 + (7 + 7 + 9)\)  
6) \(6 + 9^2 - 2 + (6 + 4)\)

7) \(10 + 48 \div 8 + (6^3 \times 9)\)  
8) \(9 + (56 \div 8 + 20 \div 5)\)

9) \(6 + 5^3 + (3 + 27 \div 3)\)  
10) \((6 + 6 + 5^3 + 60 \div 10)\)
Evaluate each expression.
Using Order of Operations

1) \((5\times2+10^3)+10+7\)  
   \((5\times2+1000)+10+7\)  
   \((10+1000)+10+7\)  
   \(1010+10+7\)  
   \(1020+7\)  
   \(1027\)

2) \((4+8^3)\times2+3\)  
   \((4+512)\times2+3\)  
   \(10+1032+3\)  
   \(1042+3\)  
   \(1045\)

3) \(8+(8+8\div4)+5^2\)  
   \(8+(8+2)+5^2\)  
   \(8+10+5^2\)  
   \(8+10+25\)  
   \(18+25\)  
   \(43\)

4) \(7+16\div8+(3^3+8)\)  
   \(7+16\div8+(27+8)\)  
   \(7+16\div8+35\)  
   \(7+2+35\)  
   \(9+35\)  
   \(44\)

5) \(9+5^3+(7+7+9)\)  
   \(9+5^3+(14+9)\)  
   \(9+5^3+23\)  
   \(9+125+23\)  
   \(134+23\)  
   \(157\)

6) \(6+9^2-2+(6+4)\)  
   \(6+9^2-2+10\)  
   \(6+81-2+10\)  
   \(87-2+10\)  
   \(85+10\)  
   \(95\)

7) \(10+48\div8+(6^3\times9)\)  
   \(10+48\div8+(216\times9)\)  
   \(10+48\div8+1944\)  
   \(10+6+1944\)  
   \(16+1944\)  
   \(1960\)

8) \(9+(56\div8+20\div5)\)  
   \(9+(7+20\div5)\)  
   \(9+(7+4)\)  
   \(9+11\)  
   \(20\)

9) \(6+5^3+(3+27\div3)\)  
   \(6+5^3+(3+9)\)  
   \(6+5^3+12\)  
   \(6+125+12\)  
   \(131+12\)  
   \(143\)

10) \((6+6+5^3+60\div10)\)  
    \((6+6+125+60\div10)\)  
    \((6+6+125+6)\)  
    \((12+125+6)\)  
    \((137+6)\)  
    \(143\)

Answers
1. 1,027  
2. 1,045  
3. 43  
4. 44  
5. 157  
6. 95  
7. 1,960  
8. 20  
9. 143  
10. 143
Evaluate each expression.

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<td>43</td>
<td>1,960</td>
<td>20</td>
<td>95</td>
</tr>
<tr>
<td>44</td>
<td>1,045</td>
<td>157</td>
<td>1,027</td>
</tr>
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</table>

1) \((5 \times 2 + 10^3) + 10 + 7\)  
2) \(10 + (4 + 8^3) \times 2 + 3\)

3) \(8 + (8 + 8 \div 4) + 5^2\)  
4) \(7 + 16 \div 8 + (3^3 + 8)\)

5) \(9 + 5^3 + (7 + 7 + 9)\)  
6) \(6 + 9^2 - 2 + (6 + 4)\)

7) \(10 + 48 \div 8 + (6^3 \times 9)\)  
8) \(9 + (56 \div 8 + 20 \div 5)\)
Evaluate each expression.

<table>
<thead>
<tr>
<th></th>
<th>Expression</th>
<th>Answer</th>
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<tbody>
<tr>
<td>1</td>
<td>$(3+30÷3)×3-2$</td>
<td>37</td>
</tr>
<tr>
<td>2</td>
<td>$(6+100÷10+9^2×4)$</td>
<td>324</td>
</tr>
<tr>
<td>3</td>
<td>$2+(2+7^2+60÷6)$</td>
<td>63</td>
</tr>
<tr>
<td>4</td>
<td>$10+(3+4-6+8)$</td>
<td>19</td>
</tr>
<tr>
<td>5</td>
<td>$(9+6÷3-10+7^2)$</td>
<td>50</td>
</tr>
<tr>
<td>6</td>
<td>$10+3^2×7+(7-4)$</td>
<td>76</td>
</tr>
<tr>
<td>7</td>
<td>$2+4-2+(2+8^3)$</td>
<td>518</td>
</tr>
<tr>
<td>8</td>
<td>$(9+6^2)×8+2+6$</td>
<td>368</td>
</tr>
<tr>
<td>9</td>
<td>$4+8+(80÷8-4)$</td>
<td>18</td>
</tr>
<tr>
<td>10</td>
<td>$2+(6+4^3-10)+30÷6$</td>
<td>67</td>
</tr>
</tbody>
</table>
Evaluate each expression.

Using Order of Operations

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<tbody>
<tr>
<td>1)</td>
<td>(3+30÷3)×3-2</td>
<td>2)</td>
<td>(6+100÷10+9²×4)</td>
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<tr>
<td></td>
<td>(3+10)×3-2</td>
<td></td>
<td>(6+100÷10+81×4)</td>
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<tr>
<td></td>
<td>13×3-2</td>
<td></td>
<td>(6+10+81×4)</td>
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<td>39-2</td>
<td></td>
<td>(6+10+324)</td>
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<td></td>
<td>37</td>
<td></td>
<td>(16+324)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>340</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

| 3) | 2+(2+7²+60÷6) | 4) | 10+(3+4-6+8) |   |   |   |   |
|   | 2+(2+49+60÷6) |   | 10+(7-6+8) |   |   |   |   |
|   | 2+(2+49+10) |   | 10+(1+8) |   |   |   |   |
|   | 2+(51+10) |   | 10+9 |   |   |   |   |
|   | 2+61 |   | 19 |   |   |   |   |
|   | 63 |   |   |   |   |   |   |

| 5) | (9+6÷3-10+7²) | 6) | 10+3²×7+(7-4) |   |   |   |   |
|   | (9+6÷3-10+49) |   | 10+3²×7+3 |   |   |   |   |
|   | (9+2-10+49) |   | 10+9×7+3 |   |   |   |   |
|   | (11-10+49) |   | 10+63+3 |   |   |   |   |
|   | (1+49) |   | 73+3 |   |   |   |   |
|   | 50 |   | 76 |   |   |   |   |

| 7) | 2+4-2+(2+8³) | 8) | (9+6²)×8+2+6 |   |   |   |   |
|   | 2+4-2+(2+512) |   | (9+36)×8+2+6 |   |   |   |   |
|   | 2+4-2+514 |   | 45×8+2+6 |   |   |   |   |
|   | 6-2+514 |   | 360+2+6 |   |   |   |   |
|   | 4+514 |   | 362+6 |   |   |   |   |
|   | 518 |   | 368 |   |   |   |   |

| 9) | 4+8+(80÷8-4) | 10) | 2+(6+4³-10)+30÷6 |   |   |   |   |
|   | 4+8+(10-4) |   | 2+(6+64-10)+30÷6 |   |   |   |   |
|   | 4+8+6 |   | 2+(70-10)+30÷6 |   |   |   |   |
|   | 12+6 |   | 2+60+30÷6 |   |   |   |   |
|   | 18 |   | 2+60+5 |   |   |   |   |
|   |   |   | 62+5 |   |   |   |   |
|   |   |   | 67 |   |   |   |   |
### Evaluate each expression.

Using Order of Operations

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<td>518</td>
<td>368</td>
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</table>

1) \((3 + 30 ÷ 3) × 3 - 2\)  
2) \((6 + 100 ÷ 10 + 9^2 × 4)\)  
3) \(2 + (2 + 7^2 + 60 ÷ 6)\)  
4) \(10 + (3 + 4 - 6 + 8)\)  
5) \((9 + 6 ÷ 3 - 10 + 7^2)\)  
6) \(10 + 3^2 × 7 + (7 - 4)\)  
7) \(2 + 4 - 2 + (2 + 8^3)\)  
8) \((9 + 6^2) × 8 + 2 + 6\)
<table>
<thead>
<tr>
<th>Evaluate each expression.</th>
<th>Answers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) $7 + 3 - 7 + (8^2 + 9)$</td>
<td>1. _________</td>
</tr>
<tr>
<td>2) $(7 + 12 ÷ 2) + 40 ÷ 4$</td>
<td>2. _________</td>
</tr>
<tr>
<td>3) $7 + (56 ÷ 7 + 16 ÷ 8)$</td>
<td>3. _________</td>
</tr>
<tr>
<td>4) $(10 + 6 ÷ 3 + 28 ÷ 7)$</td>
<td>4. _________</td>
</tr>
<tr>
<td>5) $7 + 9^3 + (100 ÷ 10 × 10)$</td>
<td>5. _________</td>
</tr>
<tr>
<td>6) $(3 + 8 - 3) × 7 × 2$</td>
<td>6. _________</td>
</tr>
<tr>
<td>7) $9 × 9 + (10 + 8) + 6$</td>
<td>7. _________</td>
</tr>
<tr>
<td>8) $(9 + 9) + 8^2 × 6 + 3$</td>
<td>8. _________</td>
</tr>
<tr>
<td>9) $9 + (4 × 6 - 6) × 8$</td>
<td>9. _________</td>
</tr>
<tr>
<td>10) $(6 - 4) + 4 - 3 + 8$</td>
<td>10. _________</td>
</tr>
</tbody>
</table>
Evaluate each expression.

Using Order of Operations

Name: Answer Key

1) \(7 + 3 - 7 + (8^2 + 9)\)
   \(7 + 3 - 7 + (64 + 9)\)
   \(7 + 3 - 7 + 73\)
   \(10 - 7 + 73\)
   \(3 + 73\)
   \(76\)

2) \((7 + 12 ÷ 2) + 40 ÷ 4\)
   \((7 + 6) + 40 ÷ 4\)
   \(13 + 40 ÷ 4\)
   \(13 + 10\)
   \(23\)

3) \(7 + (56 ÷ 7 + 16 ÷ 8)\)
   \(7 + (8 + 16 ÷ 8)\)
   \(7 + (8 + 2)\)
   \(7 + 10\)
   \(17\)

4) \((10 + 6 ÷ 3 + 28 ÷ 7)\)
   \((10 + 2 + 28 ÷ 7)\)
   \((10 + 2 + 4)\)
   \((12 + 4)\)
   \(16\)

5) \(7 + 9^3 + (100 ÷ 10 ÷ 10)\)
   \(7 + 9^3 + (10 ÷ 10)\)
   \(7 + 9^3 + 100\)
   \(7 + 729 + 100\)
   \(736 + 100\)
   \(836\)

6) \((3 + 8 - 3) \times 7 \times 2\)
   \((11 - 3) \times 7 \times 2\)
   \(8 \times 7 \times 2\)
   \(56 \times 2\)
   \(112\)

7) \(9 \times 9 + (10 + 8) + 6\)
   \(9 \times 9 + 18 + 6\)
   \(81 + 18 + 6\)
   \(99 + 6\)
   \(105\)

8) \((9 + 9) + 8^2 \times 6 + 3\)
   \(18 + 8^2 \times 6 + 3\)
   \(18 + 64 \times 6 + 3\)
   \(18 + 384 + 3\)
   \(402 + 3\)
   \(405\)

9) \(9 + (4 \times 6 - 6) \times 8\)
   \(9 + (24 - 6) \times 8\)
   \(9 + 18 \times 8\)
   \(9 + 144\)
   \(153\)

10) \((6 - 4) + 4 - 3 + 8\)
    \(2 + 4 - 3 + 8\)
    \(6 - 3 + 8\)
    \(3 + 8\)
    \(11\)
### Evaluate each expression.

<table>
<thead>
<tr>
<th></th>
<th>Using Order of Operations</th>
<th>Name:</th>
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<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>7 + 3 - 7 + (8² + 9)</td>
<td>105</td>
</tr>
<tr>
<td>2</td>
<td>(7 + 12 ÷ 2) + 40 ÷ 4</td>
<td>836</td>
</tr>
<tr>
<td>3</td>
<td>7 + (56 ÷ 7 + 16 ÷ 8)</td>
<td>23</td>
</tr>
<tr>
<td>4</td>
<td>(10 + 6 ÷ 3 + 28 ÷ 7)</td>
<td>76</td>
</tr>
<tr>
<td>5</td>
<td>7 + 9³ + (100 ÷ 10 × 10)</td>
<td>16</td>
</tr>
<tr>
<td>6</td>
<td>(3 + 8 - 3) × 7 × 2</td>
<td>112</td>
</tr>
<tr>
<td>7</td>
<td>9 × 9 + (10 + 8) + 6</td>
<td>405</td>
</tr>
<tr>
<td>8</td>
<td>(9 + 9) + 8² × 6 + 3</td>
<td>23</td>
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### Answers

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<td>8</td>
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</table>
Evaluate each expression.

Using Order of Operations

1) \((9+2^3+3)\times6-2\)  
2) \((4+6\div3)+18\div2\)

3) \((8+60\div6+28\div4)\)  
4) \((3+12\div2-6+10)\)

5) \(6-4+8^3+(4^3-8)\)  
6) \(10+(9^2+10^3)+8-4\)

7) \(5+4+7^2+(9\times5)\)  
8) \(4+(10-9)+100\div10\)

9) \(5\times9+(70\div10+2^3)\)  
10) \(2+20\div10+(8\times5)\)

**Answers**

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10.
Evaluate each expression.

1) \((9+2^3+3)\times6-2\)
   \((9+8+3)\times6-2\)
   \((17+3)\times6-2\)
   \(20\times6-2\)
   \(120-2\)
   \(118\)

2) \((4+6\div3)+18\div2\)
   \((4+2)+18\div2\)
   \(6+18\div2\)
   \(6+9\)
   \(15\)

3) \((8+60\div6+28\div4)\)
   \((8+10+28\div4)\)
   \((8+10+7)\)
   \((18+7)\)
   \(25\)

4) \((3+12\div2-6+10)\)
   \((3+6-6+10)\)
   \((9-6+10)\)
   \((3+10)\)
   \(13\)

5) \(-4+8^3+(4^3-8)\)
   \(-4+8^3+(64-8)\)
   \(-4+8^3+56\)
   \(-4+512+56\)
   \(2+512+56\)
   \(514+56\)
   \(570\)

6) \(10+(9^2+10^3)+8-4\)
   \(10+(81+10^3)+8-4\)
   \(10+(81+1000)+8-4\)
   \(10+1081+8-4\)
   \(1091+8-4\)
   \(1099-4\)
   \(1095\)

7) \(5+4+7^2+(9\times5)\)
   \(5+4+7^2+45\)
   \(5+4+49+45\)
   \(9+49+45\)
   \(58+45\)
   \(103\)

8) \(4+(10-9)+100\div10\)
   \(4+1+100\div10\)
   \(4+1+10\)
   \(5+10\)
   \(15\)

9) \(5\times9+(70\div10+2^3)\)
   \(5\times9+(70\div10+8)\)
   \(5\times9+(7+8)\)
   \(5\times9+15\)
   \(45+15\)
   \(60\)

10) \(2+20\div10+(8\times5)\)
    \(2+20\div10+40\)
    \(2+2+40\)
    \(4+40\)
    \(44\)
Evaluate each expression.

Using Order of Operations

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<td>1,095</td>
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<tr>
<td>25</td>
<td>103</td>
<td>13</td>
<td>15</td>
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</tbody>
</table>

1) \((9+2^3+3)\times6-2\)  
2) \((4+6\div3)+18\div2\)
3) \((8+60\div6+28\div4)\)  
4) \((3+12\div2-6+10)\)
5) \(-4+8^3+(4^3-8)\)  
6) \(10+(9^2+10^3)+8-4\)
7) \(5+4+7^2+(9\times5)\)  
8) \(4+(10-9)+100\div10\)

Answers

1. ________  
2. ________  
3. ________  
4. ________  
5. ________  
6. ________  
7. ________  
8. ________
Evaluate each expression.

1) \((2-2+4^2+70\div10)\)  
   \((2-2+16+70\div10)\)  
   \((2-2+16+7)\)  
   \((0+16+7)\)  
   \((16+7)\)  
   23

2) \((9+9^2+56\div7+7)\)  
   \((9+81+56\div7+7)\)  
   \((9+81+8+7)\)  
   \((90+8+7)\)  
   \((98+7)\)  
   105

3) \(8+(10\div2+10+5^2)\)  
   \(8+(10\div2+10+25)\)  
   \(8+(5+10+25)\)  
   \(8+(15+25)\)  
   \(8+40\)  
   48

4) \(7+8^3+(5+14\div7)\)  
   \(7+8^3+(5+2)\)  
   \(7+8^3+7\)  
   \(7+512+7\)  
   \(526\)  
   519

5) \(7+6+(6+2^2)-6\)  
   \(7+6+10-6\)  
   \(13+10-6\)  
   \(23-6\)  
   \(17\)  
   17

6) \(2+(5^2+16\div8)-4\)  
   \(2+(25+2)-4\)  
   \(2+27-4\)  
   \(29-4\)  
   \(25\)  
   21

7) \((7+20\div10)+3\times4\)  
   \((7+2)+3\times4\)  
   \(9+3\times4\)  
   \(9+12\)  
   \(21\)  
   21

8) \(8+(2\times6+3)+4\)  
   \(8+(12+3)+4\)  
   \(8+15+4\)  
   \(23+4\)  
   \(27\)  
   27

9) \((2+20\div10+9^3+8)\)  
   \((2+2+729+8)\)  
   \((4+729+8)\)  
   \((733+8)\)  
   \(741\)  
   741

10) \(3+10+6+(5\times9)\)  
    \(3+10+6+45\)  
    \(13+6+45\)  
    \(19+45\)  
    \(64\)  
    64
Evaluate each expression.  

1) \((2-2+4^2+70\div10)\)  
\((2-2+16+70\div10)\)  
\((2-2+16+7)\)  
\((0+16+7)\)  
\((16+7)\)  
\(23\)  

2) \((9+9^2+56\div7+7)\)  
\((9+81+56\div7+7)\)  
\((9+81+8+7)\)  
\((90+8+7)\)  
\((98+7)\)  
\(105\)  

3) \(8+(10\div2+10+5^2)\)  
\(8+(10\div2+10+25)\)  
\(8+(5+10+25)\)  
\(8+(15+25)\)  
\(8+40\)  
\(48\)  

4) \(7+8^3+(5+14\div7)\)  
\(7+8^3+(5+2)\)  
\(7+8^3+7\)  
\(7+512+7\)  
\(519+7\)  
\(526\)  

5) \(7+6+(6+2^2)-6\)  
\(7+6+(6+4)-6\)  
\(7+6+10-6\)  
\(13+10-6\)  
\(23-6\)  
\(17\)  

6) \(2+(5^2+16\div8)-4\)  
\(2+(25+16\div8)-4\)  
\(2+(25+2)-4\)  
\(2+27-4\)  
\(29-4\)  
\(25\)  

7) \((7+20\div10)+3\times4\)  
\((7+2)+3\times4\)  
\(9+3\times4\)  
\(9+12\)  
\(21\)  

8) \(8+(2\times6+3)+4\)  
\(8+(12+3)+4\)  
\(8+15+4\)  
\(23+4\)  
\(27\)  

9) \((2+20\div10+9^3+8)\)  
\((2+20\div10+729+8)\)  
\((2+2+729+8)\)  
\((4+729+8)\)  
\((733+8)\)  
\(741\)  

10) \(3+10+6+(5\times9)\)  
\(3+10+6+45\)  
\(13+6+45\)  
\(19+45\)  
\(64\)
Evaluate each expression.

1) \((2-2+4^2+70÷10)\)  
2) \((9+9^2+56÷7+7)\)

3) \(8+(10÷2+10+5^2)\)  
4) \(7+8^3+(5+14÷7)\)

5) \(7+6+(6+2^2)-6\)  
6) \(2+(5^2+16÷8)-4\)

7) \((7+20÷10)+3\times4\)  
8) \(8+(2\times6+3)+4\)

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Using Order of Operations

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Name:

Answers

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 

8
Evaluate each expression.

1) \(5 + (7 \times 6 + 8 \div 2)\)
   \(5 + (42 + 8 \div 2)\)
   \(5 + (42 + 4)\)
   \(5 + 46\)
   \(51\)

2) \(9 + (6 \div 2 + 10\times 8)\)
   \(9 + (3 + 10\times 8)\)
   \(9 + (80)\)
   \(89\)

3) \(9 \times 3 \times 5 + (6 + 30 \div 6)\)
   \(9 \times 3 \times 5 + (6 + 5)\)
   \(9 \times 3 \times 5 + 11\)
   \(27 \times 5 + 11\)
   \(135 + 11\)
   \(146\)

4) \(6 + 80 \div 10 + (8 - 4)\)
   \(6 + 8 + 4\)
   \(14 + 4\)
   \(18\)

5) \((5 + 8^3 - 5) \times 3 + 10\)
   \((5 + 512 - 5) \times 3 + 10\)
   \((512 - 5) \times 3 + 10\)
   \(1536 + 10\)
   \(1546\)

6) \(2 + (27 \div 3 + 45 \div 5)\)
   \(2 + (9 + 9)\)
   \(2 + 18\)
   \(20\)

7) \(7 \times 2 - 5 + (4 + 50 \div 10)\)
   \(7 \times 2 - 5 + 9\)
   \(14 - 5 + 9\)
   \(9 + 9\)
   \(18\)

8) \(7 + 5^3 + (8 + 50 \div 5)\)
   \(7 + 5^3 + (8 + 10)\)
   \(7 + 5^3 + 18\)
   \(7 + 125 + 18\)
   \(132 + 18\)
   \(150\)

9) \(9 \times 3 - 5 + (2 + 40 \div 5)\)
   \(9 \times 3 - 5 + 10\)
   \(27 - 5 + 10\)
   \(22 + 10\)
   \(32\)

10) \(8 + (3 \times 2 + 8) + 27 \div 9\)
    \(8 + (6 + 8) + 27 \div 9\)
    \(8 + 14 + 27 \div 9\)
    \(8 + 14 + 3\)
    \(22 + 3\)
    \(25\)
Evaluate each expression.

<table>
<thead>
<tr>
<th>Expression</th>
<th>Answers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) $5 + (7 \times 6 + 8 \div 2)$</td>
<td>51</td>
</tr>
<tr>
<td>2) $9 + (6 \div 2 + 10^2 \times 8)$</td>
<td>812</td>
</tr>
<tr>
<td>3) $9 \times 3 \times 5 + (6 + 30 \div 6)$</td>
<td>1,546</td>
</tr>
<tr>
<td>4) $6 + 80 \div 10 + (8 - 4)$</td>
<td>18</td>
</tr>
<tr>
<td>5) $(5 + 8^3 - 5) \times 3 + 10$</td>
<td>150</td>
</tr>
<tr>
<td>6) $2 + (27 \div 3 + 45 \div 5)$</td>
<td>32</td>
</tr>
<tr>
<td>7) $7 \times 2 - 5 + (4 + 50 \div 10)$</td>
<td>25</td>
</tr>
<tr>
<td>8) $7 + 5^3 + (8 + 50 \div 5)$</td>
<td></td>
</tr>
<tr>
<td>9) $9 \times 3 - 5 + (2 + 40 \div 5)$</td>
<td></td>
</tr>
<tr>
<td>10) $8 + (3 \times 2 + 8) + 27 \div 9$</td>
<td></td>
</tr>
</tbody>
</table>
Evaluate each expression.

Using Order of Operations

1. \(5 + (7 \times 6 + 8 \div 2)\)
2. \(9 + (6 \div 2 + 10^2 \times 8)\)
3. \(9 \times 3 \times 5 + (6 + 30 \div 6)\)
4. \(6 + 80 \div 10 + (8 - 4)\)
5. \((5 + 8^3 - 5) \times 3 + 10\)
6. \(2 + (27 \div 3 + 45 \div 5)\)
7. \(7 \times 2 - 5 + (4 + 50 \div 10)\)
8. \(7 + 5^3 + (8 + 50 \div 5)\)

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<tr>
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</thead>
<tbody>
<tr>
<td>146</td>
<td>18</td>
<td>150</td>
<td>1,546</td>
<td></td>
</tr>
<tr>
<td>812</td>
<td>20</td>
<td>51</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>
Evaluate each expression.

1) \(4 + (4 \times 10) \times 3 + 9^3\)
2) \(2 \times 7 + 10^3 + (10 + 6)\)
3) \(5 - 3 + 8 + (5 \times 6)\)
4) \((3 + 10^3 - 9 + 8) \times 10\)
5) \(3 + (32 \div 4 + 15 \div 3)\)
6) \(10 + (9 + 10^2 \times 6) + 10 \div 2\)
7) \((10 \times 8) + 40 \div 4 + 35 \div 5\)
8) \((8 + 3^3 + 24 \div 3) + 4\)
9) \((2 \times 2) + 21 \div 3 + 100 \div 10\)
10) \(5 + 5 + (8 + 16 \div 2)\)

Answers

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 

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<table>
<thead>
<tr>
<th>No.</th>
<th>Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>4+(4×10)×3+9^3</td>
</tr>
<tr>
<td>2.</td>
<td>2×7+10^3+(10+6)</td>
</tr>
<tr>
<td>3.</td>
<td>5-3+8+(5×6)</td>
</tr>
<tr>
<td>4.</td>
<td>(3+10^3-9+8)×10</td>
</tr>
<tr>
<td>5.</td>
<td>3+(32÷4+15÷3)</td>
</tr>
<tr>
<td>6.</td>
<td>10+(9+10^2×6)+10÷2</td>
</tr>
<tr>
<td>7.</td>
<td>(10×8)+40÷4+35÷5</td>
</tr>
<tr>
<td>8.</td>
<td>(8+3^3+24÷3)+4</td>
</tr>
<tr>
<td>9.</td>
<td>(2×2)+21÷3+100÷10</td>
</tr>
<tr>
<td>10.</td>
<td>5+5+(8+16÷2)</td>
</tr>
</tbody>
</table>
Evaluate each expression.

Using Order of Operations

<p>| | | | |</p>
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<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10,020</td>
<td>40</td>
<td>624</td>
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</tr>
<tr>
<td>853</td>
<td>47</td>
<td>1,030</td>
<td>16</td>
</tr>
</tbody>
</table>

1) \(4+(4 \times 10) \times 3 + 9^3\)
2) \(2 \times 7 + 10^3 + (10+6)\)

3) \(5-3+8+(5 \times 6)\)
4) \((3+10^3-9+8) \times 10\)

5) \(3+(32 \div 4 + 15 \div 3)\)
6) \(10+(9+10^2 \times 6) + 10 \div 2\)

7) \((10 \times 8) + 40 \div 4 + 35 \div 5\)
8) \((8+3^3+24 \div 3)+4\)