



Lovesick

Directions: Analyze each equation, and determine what should be the next step in solving the problem. Solve each equation. Next to each equation are three choices. Each choice shows a first step and an answer. To solve the riddle find the choice which contains both the correct step and correct answer, and write its letter in the blank above the number for the problem.

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|----------------------|----------------------|---------------------|---------------------|
| 1. $x + 9 = 18$ | (R) $- 9, x = 27$ | (S) $- 9, x = 9$ | (T) $- 18, x = -9$ |
| 2. $x - 13 = 16$ | (H) $+ 13, x = 29$ | (I) $+ 13, x = 3$ | (A) $- 16, x = 29$ |
| 3. $b + (-6) = 6$ | (E) $+ 6, b = 12$ | (O) $- 6, b = 0$ | (N) $- 6, b = 12$ |
| 4. $b + (-12) = 21$ | (R) $+ 21, b = 33$ | (S) $- 12, b = 9$ | (T) $+ 12, b = 33$ |
| 5. $n + (-5) = -23$ | (A) $+ 5, n = -18$ | (O) $+ 23, n = -18$ | (I) $+ 23, n = 28$ |
| 6. $y + (-8) = -12$ | (N) $+ 8, y = -20$ | (S) $- 8, y = -20$ | (K) $+ 8, y = -4$ |
| 7. $m - 27 = -63$ | (A) $+ 27, m = -90$ | (E) $+ 27, m = -36$ | (O) $+ 63, m = -36$ |
| 8. $x - (-26) = 55$ | (N) $+ 26, x = 91$ | (S) $- 26, x = 29$ | (D) $- 26, x = 91$ |
| 9. $y + (-47) = -74$ | (N) $- 47, y = -121$ | (S) $- 47, y = -27$ | (T) $+ 47, y = -27$ |
| 10. $-33 = h + 16$ | (H) $- 16, h = -49$ | (R) $+ 33, h = 49$ | (O) $- 16, h = -17$ |
| 11. $15 = a + 17$ | (A) $- 17, a = 2$ | (E) $- 17, a = -2$ | (I) $- 15, a = 2$ |
| 12. $5 + n = -13$ | (N) $- 5, n = -8$ | (T) $+ 13, n = 18$ | (S) $- 5, n = -18$ |
| 13. $-13 + k = -37$ | (N) $+ 13, k = -50$ | (T) $+ 13, k = -24$ | (L) $- 13, k = -50$ |
| 14. $-11 + r = 29$ | (O) $+ 11, r = 18$ | (A) $+ 11, r = 40$ | (I) $- 29, r = 40$ |
| 15. $-23 = t - 81$ | (D) $+ 23, t = -58$ | (R) $+ 81, t = 58$ | (I) $+ 23, t = 58$ |
| 16. $-8 + m = -22$ | (T) $+ 22, m = 14$ | (R) $+ 8, m = -30$ | (E) $+ 8, m = -14$ |
| 17. $q + (-9) = 14$ | (D) $+ 9, q = 5$ | (S) $+ 9, q = 23$ | (T) $- 14, q = -23$ |

Question: How does the *Mona Lisa* travel?

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	
<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>

Focus: Solving equations using the addition or subtraction steps