|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| J | N | I | F | P | O | E | B | Q |
| D | P | C | O | A | E | I | L | H |
| A | M | R | F | M | R | E | A | O |
| R | G | J | M | K | N | M | G | K |
| M | D | B | R | Q | H | R | K | G |
| C | R | M | E | R | M | P | C | F |
| I | L | F | A | I | C | L | O | I |
| A | P | E | O | L | K | P | A | C |
| C | F | G | K | G | F | O | L | F |
| I | O | P | L | C | A | E | P | I |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | 27b9 |  | J | x3 |
| B | $$-\frac{2p}{p^{2}}$$ |  | K | 10a4b |
| C | $$\frac{2x}{y^{2}}$$ |  | L | $$-\frac{1}{p}$$ |
| D | 20m15 |  | M | 20x5y3 |
| E | -x3 |  | N | 8x4y8 |
| F | $$-\frac{b}{4}$$ |  | O | 3xy |
| G | 20m8 |  | P | $$-\frac{m}{3}$$ |
| H | 7a4b |  | Q | 2xy2 |
| I | -27x3 |  | R | 16x4y8 |

**Simplify. Your answer should contain only positive exponents.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Black** | **1) 4m5n0-5m3** | **Black** | **2) 5ab-2a3** |
| **Grey** | **3) 5x5-4y3** | **Grey** | **4) (4x2y4)2** |
| **Yellow** | **5) (3b3)3** | **Yellow** | **6) (-3x)3** |
| **Yellow** | **7)** $-\frac{m^{2}n^{2}}{3mn^{2}}$ | **Yellow** | **8)** $\frac{-3x^{2}y^{2}}{-xy}$ |
| **Yellow** | **9)** $\frac{2yx^{3}}{x^{2}y^{2}}$ | **Yellow** | **10)**$-\frac{b^{2}∙b^{3}}{(2b^{2})^{2}}$ |
| **Yellow** | **11)** $\frac{3x-(-x)^{3}}{3x}$ | **Yellow** | **12)** $\frac{2p2}{-2p∙(-p)^{2}}$ |