### Brilliance Tuition Centre, Redbank Plains

# MATHS WORKSHEETS- ALGEBRA- QUESTIONS ON ALGEBRAIC EXPRESSIONS

#### Answer the following questions.

| 1  | Write $15 \ge y$ in a shorter way.                                  |  |
|----|---|--|
| 2  | Write 5 x 4 x m in a shorter way.                                   |  |
|    |   |  |
| 3  | Write $6 \ge m \ge m \ge m \ge m \ge n$ in a shorter way.           |  |
| 4  | Write 9 x 2 x $h$ x $m$ x $h$ in another way.                       |  |
| 5  | Write $12y^2z^2$ showing all multiplication signs.                  |  |
| 6  | Write $75m + 6$ showing all multiplication signs.                   |  |
| 7  | Write $a^2b^2c^3$ showing all multiplication signs.                 |  |
| 8  | Write $35y + 3$ showing all multiplication signs.                   |  |
| 9  | Write $x^2 + y^2$ showing all multiplication signs.                 |  |
| 10 | Write 9 x $a$ x $a$ x $b$ x $a$ in a shortened form.                |  |
| 11 | Write $(a - 7) \ge (7a - 5)$ in a shortened form.                   |  |
| 12 | Write $8 \ge y \ge y \ge z$ without multiplication signs.           |  |
| 13 | Write $11m \div 8$ without division signs.                          |  |
| 14 | Write $17a \div 9b$ without division signs.                         |  |
| 15 | Write $25a \div (3b + 5)$ without multiplication or division signs. |  |

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#### Answer Key:

| 1  | 15 <i>y</i>  |
|----|--|
| 2  | 20 <i>m</i>  |
| 3  | 6 <i>m</i> <sup>3</sup> <i>n</i>                             |
| 4  | $18h^2m$   |
| 5  | 12x y x y x z x z  |
| 6  | 75 x m + 6   |
| 7  | a x a x <i>b</i> x <i>b</i> x <i>c</i> x <i>c</i> x <i>c</i> |
| 8  | 35 x <i>y</i> + 3  |
| 9  | $x \times x + y \times y$                                    |
| 10 | 9 <i>a</i> <sup>3</sup> <i>b</i>                             |
| 11 | ( <i>a</i> – 7) (7 <i>a</i> – 5)                             |
| 12 | $8y^2z$  |
| 13 | $\frac{11m}{8}$  |
| 14 | $\frac{17a}{9b}$   |
| 15 | $\frac{25a}{3b+5}$   |