

## Worksheet #2

For **A** and **B** copy each question and complete all work on a separate sheet of paper.

### A - What is the title of this picture?

1.  $3^{-1}$
2.  $2^{-3}$
3.  $4^{-2}$
4.  $(-5)^{-1}$
5.  $(-6)^{-2}$
6.  $2^{-1} + 2^0$
7.  $\frac{1}{4^{-1}}$
8.  $\frac{2}{3^{-1}}$
9.  $3^{-1} + 3^{-2}$
10.  $4^{-2} \times 2^5$
11.  $\frac{2^0 + 2^{-2}}{2^{-3}}$
12.  $(6^2 - 5^2 - 7^0)^{-2}$
13.  $6^2(3^{-2} + 2^{-1})$

4	AL
2	AR
$\frac{1}{36}$	RE
$\frac{1}{3}$	LE
0.01	US
$\frac{4}{9}$	ED
$\frac{1}{8}$	SE
22	FI
$\frac{1}{16}$	FO
10	AL
6	PO
$-\frac{1}{5}$	MS
$\frac{3}{2}$	RF



13	5	8	1	12	9	3
6	11	2	7	10	4	

### B – Evaluating Expressions with Zero and Negative Exponents

Evaluate the following:

- |  |   |   |
|--|---|---|
| 1. $3^0 + 5^0$                                     | 2. $2^4 \times 2^{-2}$                      | 3. $3^4 \div 3$                               |
| 4. $2^0 - 4^2$                                     | 5. $2^3 + 2^{-2}$                           | 6. $2^4 \times 2^0 \div 2^3$                  |
| 7. $(6+5)^0 - 2^3$                                 | 8. $\left(\frac{2}{3}\right)^{-1} + 4^{-1}$ | 9. $16 \div (13-11)^{-2} + 2^3$               |
| 10. $-3(-4)^0$                                     | 11. $2(3^0) - 5(3^{-1})$                    | 12. $2^0 + 2^{-1} + 2^{-2}$                   |
| 13. $8^{-1} \times \left(1\frac{1}{2}\right)^{-3}$ | 14. $\frac{4}{4^{-1} + 4^0}$                | 15. $\frac{2^{-3} + 2^{-1}}{2^{-4} - 2^{-2}}$ |

#### Answers (Not in Order)

$\frac{7}{4}$ , 4,  $\frac{1}{27}$ ,  $3\frac{1}{5}$ , 72, 27, 2, -15, 81,  $1\frac{3}{4}$ , -7,  $\frac{1}{3}$ , -3,  $8\frac{1}{4}$ , 2,  $-3\frac{1}{3}$