**THE INVENTOR’S ESCAPE ROOM TEACHER GUIDE**

Lock A: Evaluate the following expressions. Show all work.

1. $8×15÷5-(5+9)$
2. $(10+2-2)×6-1$
3. $6(\frac{28}{7}+14÷7)+8$
4. $(6+8)+9⋅7$
5. $6(2+3)-3(8-2)$

Lock B: Given each expression, choose the step that should be performed first.

1. $4+2(3⋅4)+1$ 2. $\frac{81}{27}(8-5)$
2. $4+2$ a. $\frac{81}{27}$
3. $2⋅3$ b. $8-5$
4. $3⋅4$ c. $81×8$
5. $4+1$ d. $27×8$

 3. $10+6÷2+4$ 4. $12+3×5-7$

1. $10+6$ a. $12-7$
2. $6÷2$ b. $12+3$
3. $2+4$ c. $5-7$
4. $10+4$ d. $3×5$

Lock C: Evaluate the following expressions. Show all work.

1. $5+2⋅7-6(-3)$
2. $(-9)⋅4+3^{2}-12$
3. $(-5)^{2}⋅4-20÷10$
4. $3(2+(-7)⋅4)+6$

Lock D: Choose all of the expressions below that are equal to 24.

1. $\frac{3^{3}+9⋅5}{1+2}$
2. $(3^{3}+9)⋅5÷1+2$
3. $6-(3×2)×4$
4. $(6-3)×2×4$
5. $16+4+20÷5$
6. $16+4+(20÷5)$
7. $16+(4+20)÷5$

Lock E: Evaluate the following expression. Show all work.

$$2+7⋅8-(3^{2}+6)-(-4)^{3}-(2)^{5}+\frac{30}{5}$$

**Lock Results:**

A: 202

B: CBBD

C: 10, 181, 808

D: ADEF

E: 81

**Final Code for Online Escape Room:**

2C4P3