THE INVENTOR'S ESCAPE ROOM LOCKS

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

- 1. $8 \times 15 \div 5 (5 + 9)$
- 2. $(10 + 2 2) \times 6 1$
- 3. $6(\frac{28}{7} + 14 \div 7) + 8$
- 4. $(6+8) + 9 \cdot 7$
- 5. 6(2+3) 3(8-2)

Lock A Answer:

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

1. $4 + 2(3 \cdot 4) + 1$	$2.\frac{81}{27}(8-5)$
a. 4 + 2	a. $\frac{81}{27}$
b. 2 · 3	b. <i>8</i> – <i>5</i>
c. $3 \cdot 4$	c. 81 × 8
d. $4 + 1$	d. 27 × 8

3. $10 + 6 \div 2 + 4$	4. $12 + 3 \times 5 - 7$
a. 10 + 6	a. <i>12</i> – 7
b. $6 \div 2$	b. <i>12</i> + <i>3</i>
c. $2 + 4$	c. 5 – 7
d. $10 + 4$	d. <i>3</i> × <i>5</i>

Lock B Answer:



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

- 1. $5 + 2 \cdot 7 6(-3)$ 2. $(-9) \cdot 4 + 3^2 - 12$ 3. $(-5)^2 \cdot 4 - 20 \div 10$
- 4. $3(2 + (-7) \cdot 4) + 6$

Lock C Answer:

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

a.
$$\frac{3^3+9\cdot5}{1+2}$$

b. $(3^3+9)\cdot5\div1+2$
c. $6-(3\times2)\times4$
d. $(6-3)\times2\times4$
e. $16+4+20\div5$
f. $16+4+(20\div5)$
g. $16+(4+20)\div5$

Lock D Answer:

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

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

Lock E Answer:

Final Code:

