

Name: _____

WORKSHEET

Solving exponential equations

| | | | | | | | | | | | |
|----|---|----|---|----|---|----|---|---|---|----|--|
| | | | | | | | | | | | |
| 12 | 6 | 12 | 3 | 13 | 2 | 10 | 7 | 5 | 1 | 10 | |

| | | | | | | | | | | | | | | | | | |
|----|----|---|---|---|----|----|---|---|---|----|----|---|----|----|---|--|--|
| | | | | | | | | | | | | | | | | | |
| 14 | 12 | 1 | 9 | 7 | 10 | 11 | 8 | 2 | 4 | 13 | 12 | 4 | 10 | 11 | 6 | | |

Charlie Chaplin
Questions

1 $5^x - 30 = 95$

2 $2^x + 5 = 37$

3 $\frac{3^x - 61}{50} = 130$

4 $32 \times 4^x + 1 = 3$

5 $10250 - 10^x = 250$

6 $7^x + 6 \times 7^x = 1$

7 $\frac{9^x + 12}{5} = 3$

8 $8(2^x + 7) = 57$

9 $5^{x-7} + 3 = 28$

10 $4^{x+5} \times 4^{x+2} \times 4^{x+7} = 16$

11 $6^{3x} \div 6^{x+1} = 6$

12 $3^{x+1} + 3^{x+4} = 756$

13 $3 \times 2^x + 128 = 2^{x+2}$

14 $(7^x)^5 = \frac{1}{7^x}$

Solutions

A 2

D -1

E 1

G 9

H $\frac{1}{2}$

I 5

L 0

O 4

R -3

S -2

T -4

U 3

W 7

Y 8