Quizizz

NAME : _____

CLASS : _____

DATE : _____

Exponent rules and exponential equations
10 Questions

1. Anything raised to the power 0 is...

A 1

B 0, but only if the base is not 1

C 1, but only if the base is not 1

D 1, but only if the base is not 0

E 0

2. $x^3 \cdot x^2 : x^6$ equals to...

A 1

B x

C it is not possible to calculate it

D $\frac{1}{x}$

3. Compute: $\left(2^4 \cdot 4^{-3}\right)^{-2}$

A 2^4

B 2^{-2}

C 2^{-4}

D 2^2

4. In the expression $(3x)^{2a-1}$, 3x is the ...

5. To simplify $6^3 : 2^3$ you can

A subtract the exponents

B subtract the bases

C divide the bases

D divide the bases and subtract the exponents

E do nothing: you can not simplify this expression

6. Solve: $7^{-x} = 49$

7. To solve $4^{x+1} = 64$ you rewrite 64 as...

A 8^2

B 4^3

C 2^6

D $4 \cdot 16$

8. Solve for x: $3^{3-x} = 81^x$

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9. Solve for t: $5^{3t+1} = \frac{1}{25}$

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10. Solve: $4^x \cdot 3^{2x} = 6^4$

A x=1

B x=0

C x=2

D None of the other solutions is correct

Answer Key

1. d	2. d	3. a	4. base
5. c	6. -2	7. b	8. 3/5
9. -1	10. c		