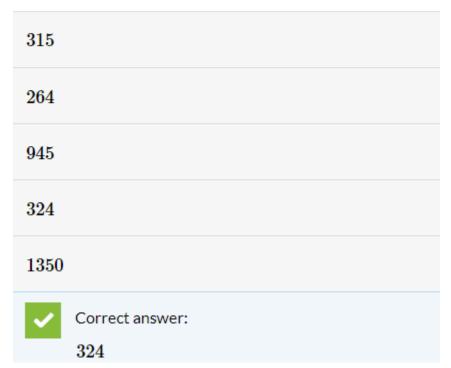
GRE Algebra Practice Test 8

Question 1

Which of the following is a multiple of 9^2 ?

Possible Answers:



Simplify the following:

$$\frac{25^{44} - 5^{86}}{12}$$

Possible Answers:

 $2 * 5^{86}$

 $2*5^{23}$

 $\frac{4}{5^2}$

 $\frac{25^2}{24}$

 $12*5^2$



Correct answer:

 $2*5^{86}$

Quantitative Comparison

Quantity A: 4^5*4^{-3}

Quantity B: $\displaystyle \frac{4^5}{4^{-3}}$

Possible Answers:

The relationship cannot be determined from the information given.

Quantity A is greater.

The two quantities are equal.

Quantity B is greater.



Correct answer:

Quantity B is greater.

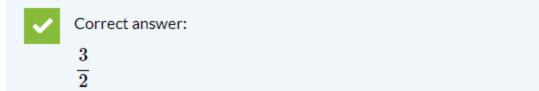
If m and n are both rational numbers and $4^m=8^n$, what is $\frac{m}{n}$?

Possible Answers:

 $\frac{5}{3}$ $\frac{4}{1}$

 $\frac{3}{2}$

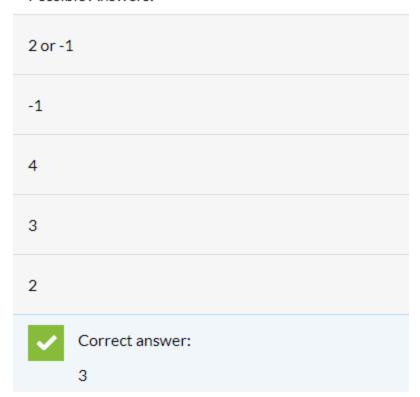
 $\frac{2}{1}$



find x

$$8^{x}=2^{x+6}$$

Possible Answers:



Compare 3^6 and 27^2 .

Possible Answers:

The relationship cannot be determined from the information given.

$$3^6 < 27^2$$

$$3^6 > 27^2$$

$$3^6 = 27^2$$



Correct answer:

$$3^6 = 27^2$$

$$2^x = 32$$

Possible Answers:

8
4
5
6
7
Correct answer:
5

$$3^x=\frac{1}{9}$$

Possible Answers:

-2

3

 $-\frac{1}{2}$

 $\frac{1}{2}$

2



Correct answer:

-2

$$\frac{1}{4}^x=256$$

Possible Answers:

$\frac{1}{4}$	
$-\frac{1}{4}$	
256	
4	
-4	
~	Correct answer: -4

$$2^{x+1} = 128$$

Possible Answers:



Correct answer: