



## New Maths GCSE: N7 - Laws of Indices Epic - positive, negative and fractional

Name: .....

Date: .....

$6^2$

What does this equal?

|          |    |          |    |
|----------|----|----------|----|
| <b>A</b> | 26 | <b>B</b> | 12 |
| <b>C</b> | 8  | <b>D</b> | 36 |

Correct Answer: A B C D

Explanation:

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$5^2$

What does this equal?

|          |    |          |    |
|----------|----|----------|----|
| <b>A</b> | 25 | <b>B</b> | 7  |
| <b>C</b> | 10 | <b>D</b> | 52 |

Correct Answer: A B C D

Explanation:

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$10^2$

What does this equal?

|          |     |          |    |
|----------|-----|----------|----|
| <b>A</b> | 102 | <b>B</b> | 20 |
| <b>C</b> | 100 | <b>D</b> | 12 |

Correct Answer: A B C D

Explanation:


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What does this equal?

A 5

B 8

C 9

D 6

Correct Answer: A B C D

Explanation:


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What does this equal?

A 27

B 9

C 33

D 6

Correct Answer: A B C D

Explanation:


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What does this equal?

A 16

B 6

C 24

D 8

Correct Answer: A B C D

Explanation:


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What does this equal?

A 5

B -6

C  $\frac{1}{6}$

D  $-\frac{1}{6}$

Correct Answer: A B C D

Explanation:

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$9^{-1}$

What does this equal?

A  $-\frac{1}{9}$

B  $-9$

C  $8$

D  $\frac{1}{9}$

Correct Answer: A B C D

Explanation:

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$10^{-1}$

What does this equal?

A  $0.1$

B  $-10$

C  $9$

D  $-0.1$

Correct Answer: A B C D

Explanation:

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$(\frac{1}{4})^{-1}$

What does this equal?

A  $-\frac{1}{4}$

B  $-4$

C  $4$

D  $-\frac{3}{4}$

Correct Answer: A B C D

Explanation:

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$(\frac{1}{5})^{-1}$

What does this equal?

A  $-\frac{4}{5}$

B  $-\frac{1}{5}$

C  $-5$

D  $5$

Correct Answer: A B C D

Explanation:

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What does this equal?

A  $-\frac{4}{5}$

B  $-\frac{1}{5}$

C 1.25

D 5.4

Correct Answer: A B C D

Explanation:


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What does this equal?

A  $\frac{1}{25}$

B -25

C  $-\frac{1}{10}$

D  $\frac{1}{10}$

Correct Answer: A B C D

Explanation:


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What does this equal?

A -64

B  $\frac{1}{16}$

C  $-\frac{1}{64}$

D  $\frac{1}{64}$

Correct Answer: A B C D

Explanation:


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What does this equal?

A 2

B 20

C 1

D 0

Correct Answer: A B C D

Explanation:


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What does this equal?

A 80

B 1

C 0

D 8

Correct Answer: A B C D

Explanation:

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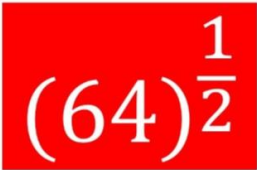
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What does this equal?

A 64.5

B 8

C 32

D 4

Correct Answer: A B C D

Explanation:

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What does this equal?

A 10

B 50

C 105

D 100.5

Correct Answer: A B C D

Explanation:

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What does this equal?

A 3

B 27.3333 ...

C 9

D 81

Correct Answer: A B C D

Explanation:

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$$(8)^{\frac{1}{3}}$$

What does this equal?

- A** 24      **B** 4  
**C** 8.333 ...      **D** 2

Correct Answer: A B C D

Explanation:

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$$(64)^{\frac{2}{3}}$$

What does this equal?

- A** 8      **B** 16  
**C** 64.666 ...      **D** 512

Correct Answer: A B C D

Explanation:

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$$(9)^{\frac{3}{2}}$$

What does this equal?

- A** 10.5      **B** 9  
**C** 27      **D** 13.5

Correct Answer: A B C D

Explanation:

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$$(4)^{-\frac{1}{2}}$$

What does this equal?

- A** 3.5      **B**  $\frac{1}{2}$   
**C** -2      **D** 2

Correct Answer: A B C D

Explanation:

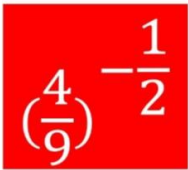
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What does this equal?

A
 $-\frac{16}{81}$

B
 $\frac{2}{3}$

C
 $\frac{3}{2}$

D
 $-\frac{2}{3}$

Correct Answer: A B C D

Explanation:

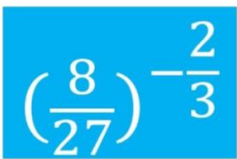
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What does this equal?

A
 $-\frac{4}{9}$

B
 $-\frac{4}{6}$

C
 $\frac{4}{9}$

D
 $\frac{9}{4}$

Correct Answer: A B C D

Explanation:


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What does this equal?

A
 $\frac{1}{10}$

B
 $\frac{1}{25}$

C
 $-25$

D
 $-\frac{1}{25}$

Correct Answer: A B C D

Explanation:

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