



New Maths GCSE: N6 - Estimating Powers and Roots

Name:.....

Date:.....

Without using a calculator,
 $\sqrt{30}$ is between:

- A** 15 and 16
- B** 3 and 4
- C** 5 and 6
- D** 14 and 15

Correct Answer: A B C D

Explanation:

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Without using a calculator,
 $\sqrt{70}$ is between:

- A** 8 and 9
- B** 7 and 8
- C** 35 and 36
- D** 6 and 7

Correct Answer: A B C D

Explanation:

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Without using a calculator,
 $\sqrt{200}$ is between:

- A** 14 and 15
- B** 99 and 100
- C** 50 and 51
- D** 13 and 14

Correct Answer: A B C D

Explanation:

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Which comparison is true?

A. $4 < \sqrt{18} < 4.5$

B. $4.5 < \sqrt{18} < 5$

C. $8.5 < \sqrt{18} < 9.5$

D. $17 < \sqrt{18} < 19$

Correct Answer: A B C D

Explanation:

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Which point on the number line is the best approximation for $\sqrt{6}$?

A. point W

B. point X

C. point Y

D. point Z

Correct Answer: A B C D

Explanation:

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Q. Evaluate $\sqrt{6}$?

A 36

B 3

C 2.4...

D 6

Correct Answer: A B C D

Explanation:

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Without using a calculator, 4.5^2 is between:

A 25 and 36

B 8 and 9

C 16 and 25

D 9 and 10

Correct Answer: A B C D

Explanation:

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Without using a calculator,
 10.8^2 is between:

- A** 20 and 21
- B** 100 and 121
- C** 5 and 6
- D** 50 and 51

Correct Answer: A B C D

Explanation:

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Without using a calculator,
 2.3^3 is between:

- A** 27 and 64
- B** 2 and 6
- C** 6 and 9
- D** 8 and 27

Correct Answer: A B C D

Explanation:

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What is $\sqrt{20}$?

- A** 10
- B** 4.5ish
- C** 5
- D** you can't do it

Correct Answer: A B C D

Explanation:

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