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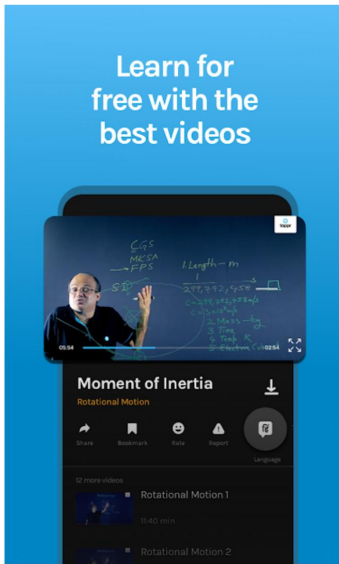
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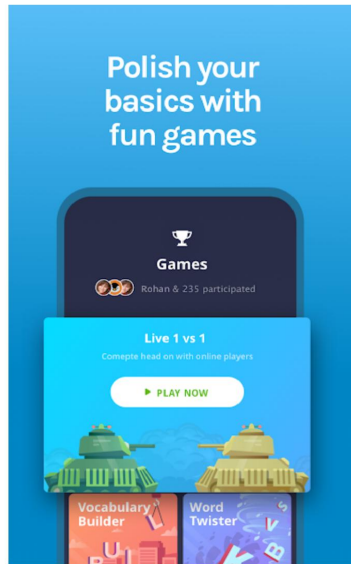


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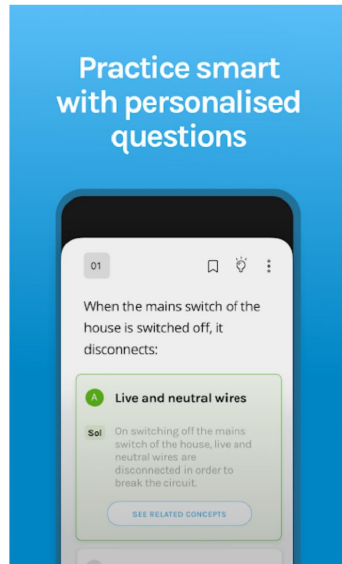
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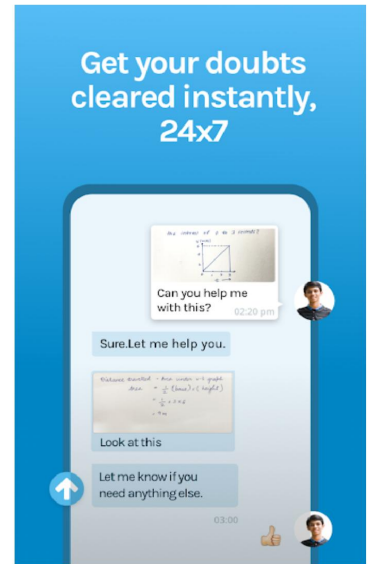
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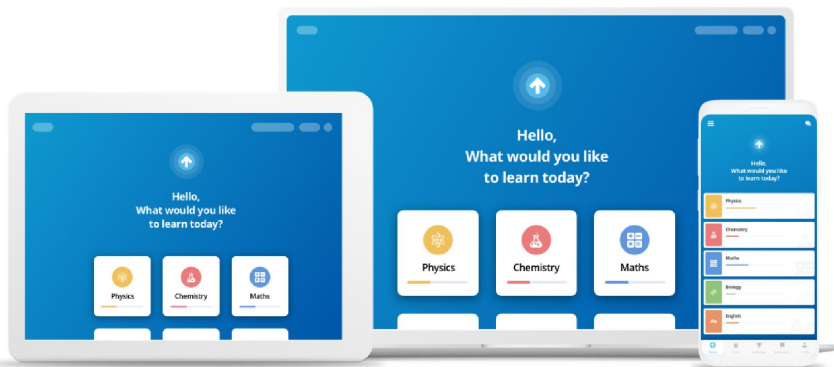
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#427755

Topic: Patterns in Square Numbers

$6^2 = 36$. Find the square of 16.

Observe the similarity between the two.

Solution

$$6^2 = 6 \times 6 = 36$$

$$16^2 = 16 \times 16 = 256$$

Similarity of both is one's digit of both is same.

#464918

Topic: Patterns in Square Numbers

Observe the following pattern and find the missing digits.

$$11^2 = 121$$

$$101^2 = 10201$$

$$1001^2 = 1002001$$

$$100001^2 = 1.....2.....1$$

$$10000001^2 =$$

Solution

$$100001^2 = 10000200001$$

$$10000001^2 = 100000020000001$$

Start with 1 followed as many zeroes as there are between the first and the last one, followed by 2 again followed by as many zeroes and end with 1.

#464919

Topic: Patterns in Square Numbers

Observe the following pattern and supply the missing number.

$$11^2 = 121$$

$$101^2 = 10201$$

$$10101^2 = 102030201$$

$$1010101^2 =$$

$$.....^2 = 10203040504030201$$

Solution

$$1010101^2 = 1020304030201$$

$$101010101^2 = 10203040504030201$$

Start with 1 followed by a zero and go up to as many number as there are number of 1s given, follow the same pattern in reverse order.

#464920

Topic: Patterns in Square Numbers

Using the given pattern, find the missing numbers.

$$1^2 + 2^2 + 2^2 = 3^2$$

$$2^2 + 3^2 + 6^2 = 7^2$$

$$3^2 + 4^2 + 12^2 = 13^2$$

$$4^2 + 5^2 + ..^2 = 21^2$$

$$5^2 + ..^2 + 30^2 = 31^2$$

$$6^2 + 7^2 + ...^2 = ...^2$$

Solution

$$5^2 + 6^2 + 30^2 = 31^2$$

$$6^2 + 7^2 + 42^2 = 43^2$$

Relation among first, second and third number - Third number is the product of first and second number.

The relation between the third and right hand side number - the right-hand side number is 1 more than the third number.