



MATHS

BOOKS - CALCUTTA BOOK HOUSE

MATHS (BENGALI ENGLISH)

**CONSTRUCTION : DETERMINATION OF
MEAN PROPORTIONAL**

Examples

1. Construct the mean-proportional of 5 cm, 2.5 cm and also find the value of the mean-proportional.



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2. Construct the mean-proportional of 4 cm, 3 cm and also find the value of the mean-proportional.



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3. Construct the mean-proportional of 7.5 cm, 4 cm and also find the value of the mean-proportional.



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4. Construct the mean-proportional of 10 cm, 4 cm and also find the value of the mean-proportional.



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5. Construct the mean-proportional of 9 cm, 5 cm and also find the value of the mean-proportional.



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6. Construct the mean-proportional of 12 cm, 3 cm and also find the value of the mean-proportional.



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7. Determine the square root of the 7 number in geometric method .



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8. Determine the square root of the 28 number in geometric method .



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9. Determine the square root of the 13 number in geometric method .



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10. Determine the square root of the number 784 .



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11. Construct a rectangle of 6 cm , 4cm by taking the given lengths as its two sides and also construct a square of area equal to this constructed reactangles .



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12. Construct a rectangle of 7.25 cm , 3.75cm by taking the given lengths as its two sides and also construct a square of area equal to this constructed reactangles .





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13. Construct a triangle at first by taking the given lengths as the sides of the triangle, then construct a square of area equal to the area of this drawn triangle .

The length of the three sides are 8.4 cm , 6.15 cm and 3.75 cm respectively.



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14. Construct a triangle at first by taking the given lengths as the sides of the triangle, then construct a square of area equal to the area of this drawn triangle .

An isosceles triangle, the base of which is 7 cm and the length of each of the equal sides is 5 cm.



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15. Construct a triangle at first by taking the given lengths as the sides of the triangle, then construct a square of area equal to the area of this drawn triangle .

An equilateral triangle the sides of which is 4.7 cm.



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Exercise

1. The mean-proportional of 4 and 9 is

A. 36

B. 6

C. $\sqrt{\frac{2}{3}}$

D. None of these

Answer: B



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2. The mean-proportional \sqrt{a} and $a\sqrt{a}$ is -

A. a

B. a^2

C. $a\sqrt{a}$

D. None of these

Answer: A



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3. By determining the mean-proportional there can be constructed _____ of area equal to the area of a given rectangle.

- A. a rhombus
- B. a parallelogram
- C. a square
- D. None of these

Answer: C



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4. The area of a square equal to the area of a rectangle, the length and breadth of which is $(\sqrt{a} + 1)$ cm and $(\sqrt{a} - 1)$ cm respectively. find the side of the square.

A. 1 cm

B. 1 sq-cm

C. $\sqrt{a - 1}$ cm

D. $\sqrt{a - 1}$ sq-cm

Answer: D



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5. Determine the mean-proportional of the line segments of 7.4 cm and $3.\overline{378}$ cm.



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6. Determine the mean-proportional of the line segments of 5.6 cm and $6.\overline{428571}$ cm.



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7. Find the values of the $\sqrt{19}$ by geometric method .



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8. Find the values of the $\sqrt{23}$ by geometric method .



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9. Find the values of the $\sqrt{11}$ by geometric method .



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10. Find the values of the $\sqrt{29}$ by geometric method .



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11. Find the square root of 21 by geometric method.



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12. Find the value of $\sqrt{35}$ by geometric method.



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13. Find the value of $\sqrt{31}$ by geometirc method.



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14. Construct a rectangle of 12.8 cm and 5 cm and then construct a square of area of the drawn rectangle and also find the length of each sides of those squares.



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15. Construct a rectangle of 2.2 cm and 4.4 cm and then construct a square of area of the drawn rectangle and also find the length of each sides of those squares.



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16. 5cm , 8cm and 11 cm at first draw a triangle . Later on, construct a rectangle of area equal to the area of the drawn triangle.



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17. An isosceles triangle, the base of which is 8 cm and the length of each of its equal sides is 5 cm at first draw a triangle. Later on, construct a rectangle of area equal to the area of the drawn triangle.



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18. An equilateral triangle each of whose sides is 8 cm at first draw a triangle. Later on,

construct a rectangle of area equal to the area of the drawn triangle.



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19. Construct a triangle of sides of lengths 5 cm , 8 cm and 11 cm . Also construct a rectangle of area equal to the area of this drawn triangle



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20. Bisect a triangle by a straight line drawn parallel to the base.



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