

ගණිතය I
கணிதம் I
Mathematics I

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மகிழ்ச்சி மிகு கணிதம்
Math Happily

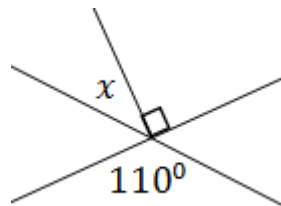
ශ්‍රේණිය
தரம்
Grade

8

පැය එකයි
ஒரு மணித்தியாலம்
One hour

- Answer all questions

- 01). 1 , 3 , 6 , 10 , ____ , ____ Find the next two terms of this number pattern
i. 14 , 18 ii. 15 , 21 iii. 12 , 14 iv. 20 , 30
- 02). The length and breadth of a rectangular flower bed is 8m and 3m respectively. Find its perimeter.
i. 22m ii. 24m iii. 24cm iv. 22cm
- 03). Select a pair of complementary angles
i. $75^{\circ}, 15^{\circ}$ ii. $75^{\circ}, 25^{\circ}$ iii. $75^{\circ}, 105^{\circ}$ iv. $75^{\circ}, 5^{\circ}$
- 04). 1 , 3 , 5 , 7 ... What is the general term of this number pattern?
i. $n + 2$ $2n + 1$ ii. $2n - 1$ iii. $1 - 2n$
- 05). Perimeter of a square is 64m. Find its side length.
i. 16cm ii. 16m iii. 32m iv. 8cm
- 06). Select the supplement of 80° .
i. 10° ii. 20° iii. 80° iv. 100°
- 07). General term of a number pattern is n^2 . Find the tenth term of that pattern
i. 20 ii. 12 iii. 1024 iv. 100
- 08). The length of a rectangular flower bed is twice of its breadth, if perimeter of that flower bed is 48m, what is the correct statement.
i. Length of it is 8m ii. Breadth of it is 16m.
iii. Length of it is 16m iv. Sum of its Length and Breadth is 16m
- 09). According to the following figure find the magnitude of the angle given in x
i. 20°
ii. 55°
iii. 90°
iv. 70°

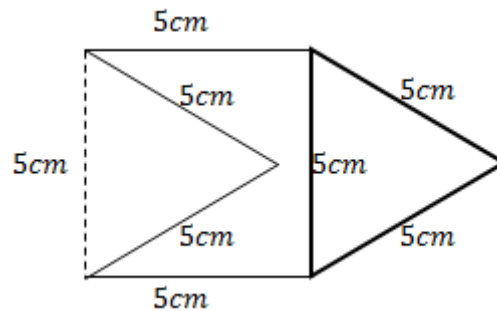


10). Which square number can obtain by adding the 3rd and 4th triangular numbers.

- i. 16th square number
- ii. 5th square number
- iii. 4th square number
- iv. 12th square number

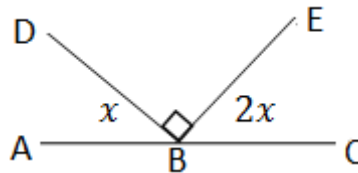
11). Find the perimeter of following composite figure.

- i. 25cm
- ii. 35cm
- iii. 30cm
- iv. 40cm



12). AC is a straight line. B is a point on that line. Find the magnitude of the angle given in x

- i. 45°
- ii. 30°
- iii. 60°
- iv. 90°

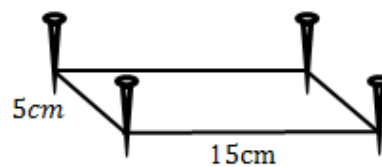


13). Select correct statement relevant to 64.

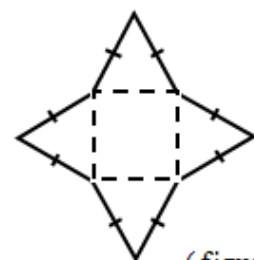
- i. It's 32nd term of square number pattern and 8th term of even number pattern.
- ii. It's 8th term of square number pattern and 8th term of even number pattern.
- iii. It's 16th term of square number pattern and 32nd term of even number pattern.
- iv. It's 8th term of square number pattern and 32nd term of even number pattern.

14). Kamal creates a rectangle on a nail board using an unstretch string as shown in the figure1. After that without change the length of that sting he create another shape as shown in the figure2. Find the length of one side of that new shape.

- i. 5cm
- ii. 10cm
- iii. 3.33cm
- iv. 2.5cm



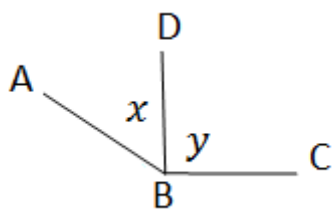
(figure1)



(figure2)

15). Select the correct statement.

- i. Sum of two obtuse angles gives a supplementary angle .
- ii. Straight angle can be formed using only an obtuse angle and a right angle
- iii. Sum of a right angle and an acute angle gives a reflex angle.
- iv. Complementary angles can be formed using only two acute angles.

- 16). Consider the odd number pattern beginning from 51 and less than 100. Which term is the largest odd number.
- i. 25^{th} term. ii. 50^{th} term iii. 24^{th} term. iv. 26^{th} term
- 17). There are five squares of side length 8cm each. A symmetrical figure is prepared keeping one square at the middle and keep others along the each side around the previous square. Find the perimeter of that new figure.
- i. 40cm ii. 96cm iii. 168cm iv. 128cm
- 18). Find the correct statement.
- i. x and y are adjacent angles
- ii. When value of $x + y$ equal to 180, then A, B and C are not collinear points
- iii. When values of x and y are equal, then A, B and C are collinear points.
- iv. Common arm of angle x and angle y is BC.
- 
- 19). Consider the square number pattern less than 30. The sum of two terms of that pattern gives another square number. Which terms are they?
- i. 1^{st} term and 4^{th} term ii. 16^{th} term and 25^{th} term
- iii. 3^{rd} term and 4^{th} term iv. 9^{th} term and 16^{th} term
- 20). The length and breadth of an indoor stadium is 20m and 15m. Along the inner boarder it is needed to attach square shaped tiles of side length 20cm. Find the number of tiles needed for that task.
- i. 350 ii. 348 iii. 346 iv. 344

May

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