

DAISY CENTRE AND SCHOOL

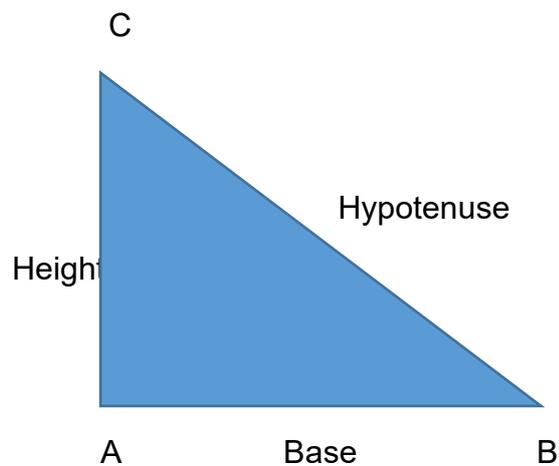
P.O. BOX 1485-50100

KAKAMEGA

MATHEMATICS

TOPIC: TRIANGLES

SUB TOPIC: PYTHAGOREAN THEOREM



The above figure is a triangle ABC.

Line AB is called base

Line AC is called height

Line BC is called hypotenuse.

There is relationship among this lines.

That is when you get the sum of the square of line AB and the square of line AC, you will get the square of BC. i.e.

$$AB^2 + AC^2 = BC^2$$

You can rename the lines as $AB=a$, $AC=b$ and $BC = c$, therefore

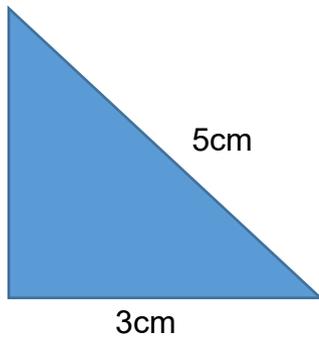
$$a^2 + b^2 = c^2$$

From the relationship above we can get the height and base by,

$$c^2 - b^2 = a^2 \text{ and } c^2 - a^2 = b^2$$

Example 1

Find the height of the triangle below.



Solution:

$$\begin{aligned} b^2 &= c^2 - a^2 \\ &= 5^2 - 3^2 \\ &= 25 - 9 \\ &= 16 \end{aligned}$$

$b^2 = 16$ but b will be,

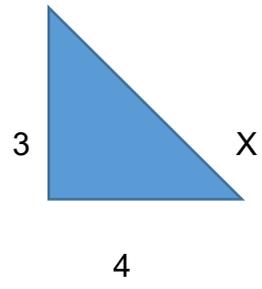
$$b = \sqrt{16} = 4$$

Therefore the height is 4cm.

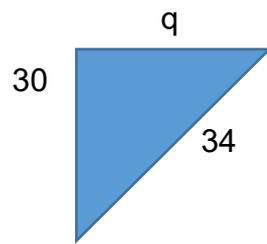
Exercise

1. Find the measure of each of the missing sides in the figure below.

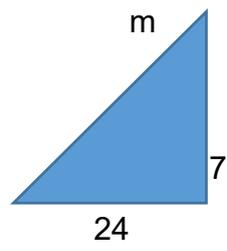
a.



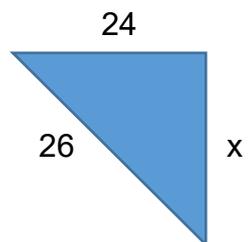
b.



c.



d.



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KISWAHILI DARASA LA SABA

SURA YA TISA

LINALOWEZEKANA LEO

Maneno magumu

1. Kibago.....*kiti kisicho na egemeo , stuli*
2. kuzembea.....kuwa mzembe, kuwa mvivu
3. buraha.....mapumziko mafupi
4. kuchachawizwa.....kuingiliwa kati, kukatizwa
5. natija.....faida manufaa, , mapato
6. kulimbika....kuweka uporo

Kwa hivyo wanafunzi maneno niliyoyaandika ubaoni ni maneno magumu yanayojitokeza kwenye ufahamu wetu sura ya tisa kwa hivyo nitasoma kwa sauti aya za kwanza tatu baada ya kusoma kuna maneno matatu ambayo hatujajadiliana kwa upamoja hapa darasani . Nani anaweza kuyatambua? Jesilo-maadili

Je, maadili ni nini? (ni mafunzo mema au mambo yanayofaa ya utu na kibinadamu, mawaidha mema)

Kwa hivyo ningependa tusome ufahamu sote tukizingatia alama za uakifishaji kisha utambue maneno magumu ambayo sikuweza kuyatambua kisha utafute maana kwenye kamusi yetu. Baaada ya hayo ufanye maswali ya ufahamu jinsi nilivyokuelekeza , kwenye daftari lako 1-10

SARUFI

VIULIZI

Kiulizi ni neno la kuuliza kama vile lini? Gani? Nini? Nani?

Havibadiliki kwa vyovyote vile unapovitumia

Lini? - Ni kiulizi cha siku au wakati ambapo kitendo kilitokea mf shule zitafunguliwa lini?

Nani? - hutumika katika ngeli ya A-WA mf jina lako nani?

Nini? - hutumika kutaka kujua mf eugine amebeba nini?

Baada ya kusoma kuhusu viulizi tufanye maswali ya kuteua kiulizi sahihi uk 77

Kipindi hiki kimetayarishwa na mwalimu wako wa kiswahili darasa la saba Bw Chami

DAISY CENTRE SCHOOL
CRE STANDARD SEVEN ASSIGNMENTS

ATTEMPT TO ANSWER ALL QUESTIONS

1. Why did Mary and Joseph go to Bethlehem when Jesus was born?
2. The name Jesus means?
3. When Jesus was presented in the temple Simeon described him as _____
4. In which town was Jesus rejected for declaring his hope for mankind?
5. _____ described Jesus as 'Son of the most High God'
6. Jesus begun His ministry in town of _____
7. Give titles that were given to Jesus by prophet Isaiah.
8. In the parable of the sower, the seeds represent _____
9. _____ was the Roman emperor during the Birth of Jesus.
10. Name three gifts given to baby Jesus and what they symbolize.
11. In which town were Paul and Silas put in prison?
12. In which place was Jesus a refugee?
13. The name Noah means?
14. Which King of Israel was tormented by an evil spirit for disobeying God's instruction?
15. Name the three sons of Noah?
16. During the five thousand people (men) _____ informed Jesus about the boy who had five loaves and two fish.
17. When Judas Iscariot died, he was replaced by _____
18. The first book of the bible describes _____
19. The first five books of the bible are called _____
20. _____ was Jacob's brother.

