



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



CLASS 8

SUBJECT :Algebra and Geometry

Work sheet 12

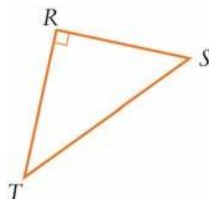
Marks:15

PYTHAGORAS THEOREM

Date:22.2.2021

Answer all the following questions(1×15=15)

1 Which side of this triangle is the hypotenuse?



A RS B TR

C ST

D RT

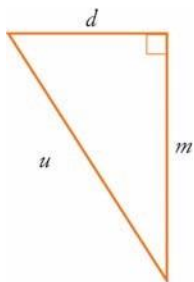
2 . Which is the correct Pythagoras' theorem for this triangle?

A $d^2 = m^2 - u^2$

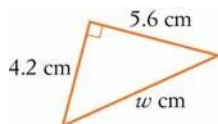
B $d^2 = m^2 + u^2$

C $m^2 = d^2 + u^2$

D $u^2 = m^2 + d^2$



3 Find w .



A 3.70 B 9.8

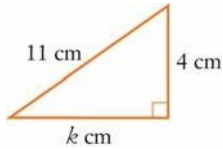
C 7

D 1.4

9. Which one of these is a Pythagorean triad?

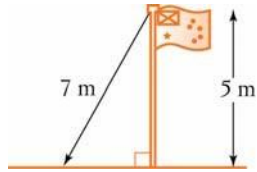
- A** (8, 15, 17) **B** (6, 10, 16)
C (18, 21, 25) **D** (7, 12, 13)

10. Find k .



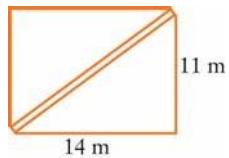
- A** 2.65 **B** 8
C 10.25 **D** 11.70

11. A flagpole of height 5 metres is tied to the ground by a 7 metre cable. How far from the base of the flagpole is the cable tied?



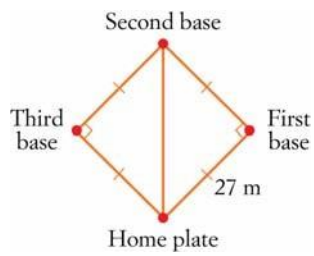
- A** 8.60 m **B** 4 m
C 1.41 m **D** 4.90 m

12. Find the length of the path through the park.



- B** 77 m **B** 17.80 m
C 12.41 m **D** 25 m

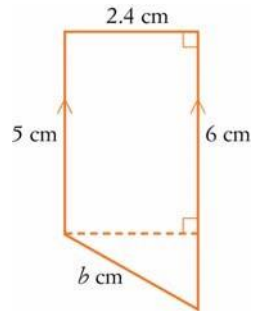
13. A baseball field is a square with a side length of 27 metres. What is the distance between the home plate and second base?



- A** 7.35 m
C 40.50 m

- B** 52 m
D 38.18 m

14. Find b .

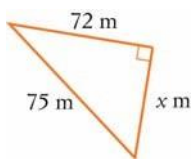


- C** 8.17
C 2.60

- B** 3.32
D 2.18

15.

Find x .



- A** 21
C 15

- B** 3
D 18

