

Teorem Pythagoras

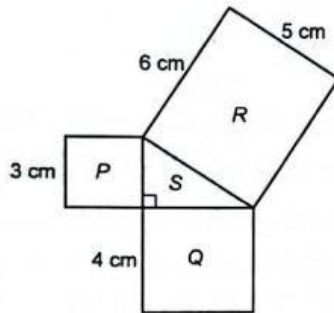
Pythagoras' Theorem

Skor

30

Bahagian A

1. Rajah di bawah terdiri daripada dua buah segi empat sama, P dan Q , sebuah segi empat tepat R dan sebuah segi tiga bersudut tegak S . **SK 13.1 TP2**
The diagram below consists of two squares, P and Q , a rectangle R and a right-angled triangle S .

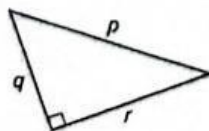


Tentukan panjang hipotenus, dalam cm, bagi segi tiga S .

Determine the length, in cm, of the hypotenuse of triangle S .

- A 3
B 4
C 5
D 6

2. Rajah di bawah menunjukkan sebuah segi tiga bersudut tegak. **SK 13.1 TP1**
The diagram below shows a right-angled triangle.

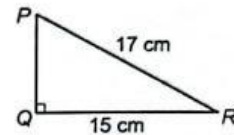


Antara berikut, yang manakah adalah benar?

Which of the following is true?

- A $p^2 = q^2 - r^2$
B $p^2 = q^2 + r^2$
C $r^2 = p^2 + q^2$
D $q^2 = p^2 + r^2$

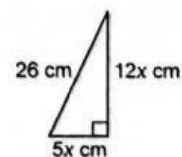
3. Rajah di bawah menunjukkan sebuah segi tiga bersudut tegak. **SK 13.1 TP3**
The diagram below shows a right-angled triangle.



Hitung panjang, dalam cm, PQ .
Calculate the length, in cm, of PQ .

- A 8
B 9
C 10
D 12

4. Rajah di bawah menunjukkan sebuah segi tiga bersudut tegak. **SK 13.1 TP4**
The diagram below shows a right-angled triangle.



Cari nilai x .

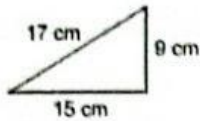
Find the value of x .

- A 1
B 2
C 3
D 4

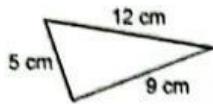


5. Antara berikut, yang manakah ialah segi tiga bersudut tegak? **SK 13.2 TP3**
Which of the following is a right-angled triangle?

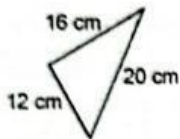
A



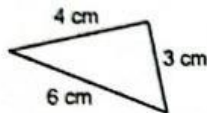
B



C

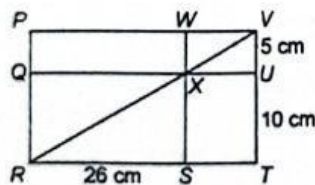


D



6. Rajah di bawah terdiri daripada empat buah segi empat tepat. RXV ialah garis lurus.

The diagram below consists of four rectangles. RXV is a straight line. **SK 13.1 TP3**

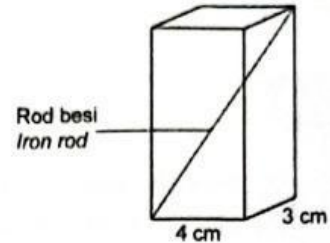


Diberi nisbah $RX : XV = 2 : 1$. Hitung panjang, dalam cm, ST .

Given the ratio $RX : XV = 2 : 1$. Calculate the length, in cm, of ST .

- A 9
B 10
C 12
D 13

7. Rajah di bawah menunjukkan sebatang rod besi dengan panjang 13 cm diletak ke dalam sebuah bekas berbentuk kuboid. The diagram below shows an iron rod of length 13 cm placed in a cuboid-shaped container. **SK 13.1 TP4**



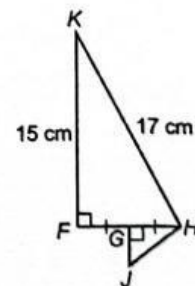
Hitung tinggi, dalam cm, bekas itu.

Calculate the height, in cm, of the container.

- A 8
B 9
C 10
D 12

8. Dalam rajah di bawah, FGH ialah garis lurus dan $JH = \frac{1}{3}FK$. **SK 13.1 TP4**

In the diagram below, FGH is a straight line and $JH = \frac{1}{3}FK$.



Cari perimeter, dalam cm, seluruh rajah itu.

Find the perimeter, in cm, of the whole diagram.

- A 40
B 44
C 48
D 52