Ujian

16

UASA

BAB 13

Tarikh : _____

Teorem Pythagoras

Pythagoras' Theorem

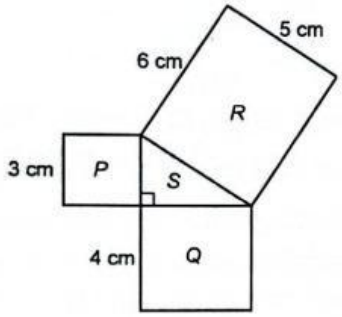
Skor

/ 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

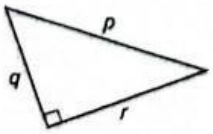
B 4

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 $p^2 = q^2 - r^2$

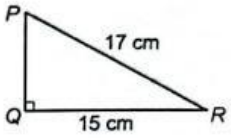
B $p^2 = q^2 + r^2$

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

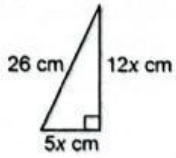
B 9

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

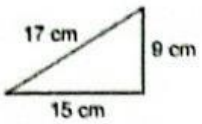
B 2

C 3

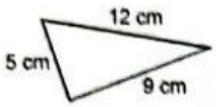
D 4

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

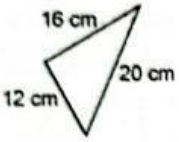
A



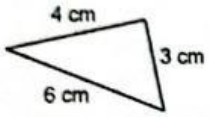
B



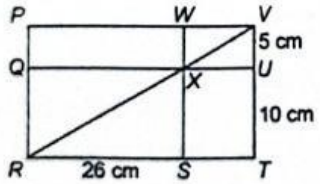
C



D



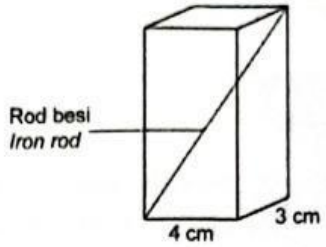
6. Rajah di bawah terdiri daripada empat buah segi empat tepat. *RXV* ialah garis lurus.
The diagram below consists of four rectangles. RXV is a straight line. SK 13.1 TP3



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

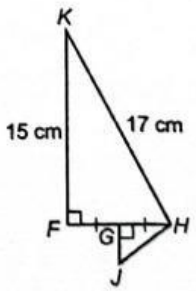
7. Rajah di bawah menunjukkan sebatang rod besi dengan panjang 13 cm diletak ke dalam sebuah bekas berbentuk kuboid.
The diagram below shows an iron rod of length 13 cm *placed in a cuboid-shaped container.*
SK 13.1 TP4



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

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