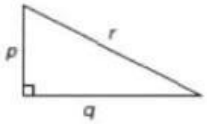
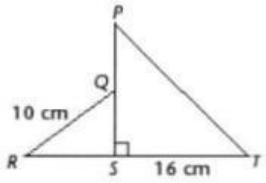
1.



Based on the triangle, which of the following statements is **not** true?
Berdasarkan segi tiga di atas, antara penyataan berikut, yang manakah **tidak** *benar?*

- **A** $r^2 = p^2 + q^2$
- **B** $q^2 = r^2 - p^2$
- **C** $q^2 = p^2 - r^2$
- **D** r is the hypotenuse.
  r ialah hipotenus.

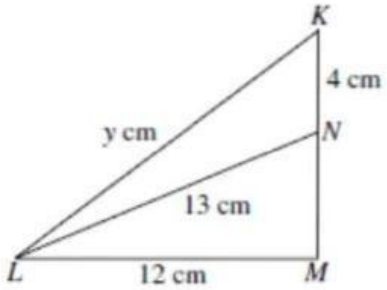
2. In the diagram, *PQS* and *RST* are straight lines.
Dalam rajah di bawah, PQS dan RST ialah garis lurus.



Given $QS : QR = 3 : 5$ and Q is the midpoint of PS.
Find the length, in cm, of PT.
Diberi $QS : QR = 3 : 5$ dan Q ialah titik tengah PS.
Cari panjang, dalam cm, *PT.*

- **A** 12
- **B** 20
- **C** 30
- **D** 40

3. Triangle *KML* in the diagram is a right-angled triangle.
Segi tiga KML dalam rajah di bawah ialah segi tiga bersudut tegak.

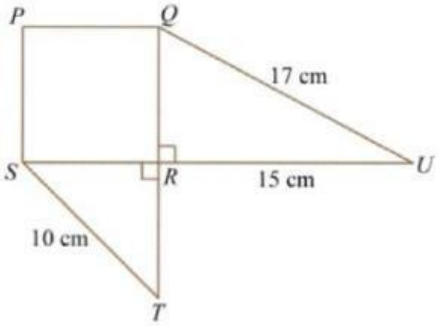


Find the value of y.
Cari nilai y.

- **A** 13
- **B** 14
- **C** 15
- **D** 17

LIVEWORKSHEETS

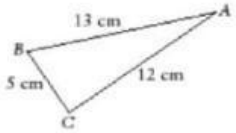
4. In the diagram, *PQRS* is a square. *SRU* and *QRT* are straight lines.
Dalam rajah di bawah, PQRS ialah segi empat sama. SRU dan QRT ialah garis lurus.



Find the perimeter, in cm, of the whole diagram.
Cari perimeter, dalam cm, seluruh rajah itu.

- A 37
- B 64
- C 68
- D 70

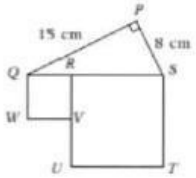
5. The diagram shows a triangle *ABC*.
Rajah di bawah menunjukkan sebuah segi tiga ABC.



Which of the following is **not** true?
Antara berikut, yang manakah **tidak** *benar?*

- A ΔABC is a right-angled triangle.
  ΔABC ialah sebuah segi tiga bersudut tegak.
- B $\angle ACB$ is a right angle.
  $\angle ACB$ ialah sudut tegak.
- C *AC* is the hypotenuse.
  AC ialah hipotenus.
- D The area of ΔABC is 30 cm^2.
  Luas ΔABC ialah 30 cm^2

6. In the diagram, *QRVW* and *RSTU* are squares.
Dalam rajah di bawah, QRVW dan RSTU ialah segi empat sama.



Given the area of *RSTU* is 169 cm^2, find the area, in cm^2, of *QRVW*.
Diberi luas RSTU ialah 169 cm^2, *cari luas, dalam* cm^2, *bagi QRVW.*

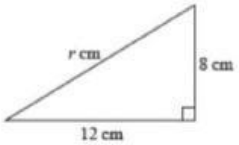
- A 4
- B 16
- C 18
- D 20

LIVEWORKSHEETS

7. A piece of rectangular copper plate with its diagonal measuring 15 cm in length.
If the length of the copper plate is 12 cm, find its breadth.
Sekeping plat tembaga berbentuk segi empat tepat dengan panjang pepenjurunya beru 15 cm.
Jika panjang plat tembaga itu ialah 12 cm, *cari lebarnya, dalam* cm.

- A 9
- B 11
- C 13
- D 15

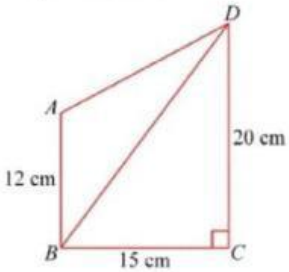
8. The diagram shows a right-angled triangle.
Rajah di bawah menunjukkan sebuah segi tiga bersudut tegak.



Find the value of *r*.
Cari nilai r.

- A 13.42
- B 14.42
- C 16.48
- D 18.06

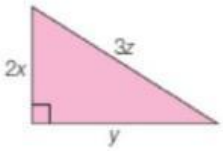
9. The diagram shows a trapezium *ABCD*.
Rajah di bawah menunjukkan sebuah trapezium ABCD.



Calculate the perimeter, in cm, of triangle *ABD*.
Hitung perimeter, dalam cm, *segi tiga ABD.*

- A 42
- B 54
- C 60
- D 63

10. The diagram shows a right-angled triangle.
Rajah di bawah menunjukkan sebuah segi tiga bersudut tegak.

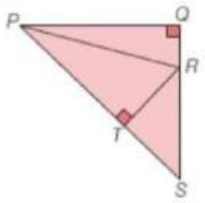


Which of the following is true about the triangle?
Antara berikut, yang manakah benar tentang segi tiga itu?

- A $2x^2 + y^2 = 3z^2$
- B $2x^2 + y^2 = 9z^2$
- C $4x^2 + y^2 = 3z^2$
- D $4x^2 + y^2 = 9z^2$

LIVEWORKSHEETS

11. The diagram shows some right-angled triangles.
Rajah di bawah menunjukkan beberapa buah segi tiga bersudut tegak.

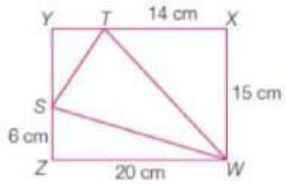


Based on the diagram, state all the hypotenuses.
Berdasarkan rajah, nyatakan semua hipotenus.

I *PR*
II *RS*
III *PS*
IV *PT*

- **A** I & II
- **B** II & IV
- **C** I, II & III
- **D** II, III & IV

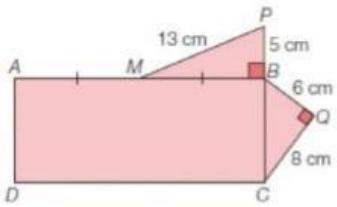
12. The diagram shows a rectangle *WXYZ*.
Rajah di bawah menunjukkan sebuah segi empat tepat WXYZ.



Find the length, in cm, of *SW*.
Cari panjang, dalam cm, *bagi SW.*

- **A** 28.45
- **B** 23.28
- **C** 20.88
- **D** 18.45

13. The diagram consists of rectangle *ABCD* and two right-angled triangles, *PMB* and *BQC*.
Rajah di bawah terdiri daripada sebuah segi empat tepat ABCD dan dua segi tiga bersudut tegak, PMB dan BQC.



Calculate the perimeter, in cm, of the whole diagram.
Hitung perimeter, dalam cm, *seluruh rajah itu.*

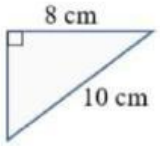
- **A** 62
- **B** 68
- **C** 78
- **D** 82

LIVEWORKSHEETS

14. In a triangle *ABC*, given that $a^2 = b^2 + c^2$. Then, the angle opposite to the side *b* is
Dalam sebuah segi tiga ABC, diberi bahawa $a^2 = b^2 + c^2$. Maka, sudut yang bertentangan dengan sisi b ialah

- **A** an acute angle
  sudut tirus
- **B** a right angle
  sudut tepat
- **C** an obtuse angle
  sudut cakah
- **D** a reflex angle
  sudut refleks

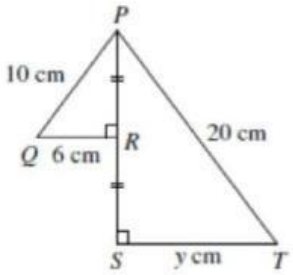
15. The diagram shows a right-angled triangle.
Rajah di bawah menunjukkan sebuah segi tiga bersudut tegak.



Calculate the area, in cm^2, of the triangle.
Hitung luas, dalam cm^2, segi tiga itu.

- **A** 6
- **B** 20
- **C** 24
- **D** 48

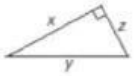
16. The diagram shows two right-angled triangles, *PRQ* and *PST*.
Rajah di bawah menunjukkan dua buah segi tiga bersudut tegak, PRQ dan PST.



Find the value of *y*.
Cari nilai y.

- **A** 12
- **B** 10
- **C** 9
- **D** 8

17.

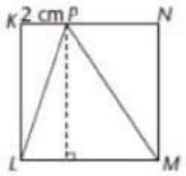


Based on the triangle, which of the following equations is true?
Berdasarkan segi tiga di atas, antara persamaan berikut, yang manakah benar?

- **A** $x^2 = y^2 + z^2$
- **B** $z^2 = x^2 + y^2$
- **C** $y^2 = x^2 - z^2$
- **D** $x^2 = y^2 - z^2$

LIVEWORKSHEETS

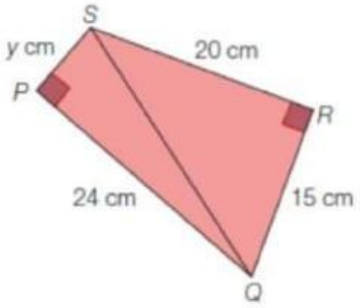
18. In the diagram, *KLMN* is a square.
Dalam rajah di bawah, KLMN ialah sebuah segi empat sama.



If the area of triangle *LMP* is 32 cm^2, find the length, in cm, of *MP*.
Jika luas segi tiga LMP ialah 32 cm^2, cari panjang, dalam cm, bagi MP.

- **A** 8
- **B** 10
- **C** 11
- **D** 13

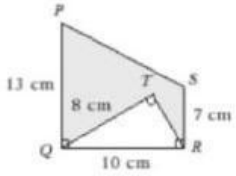
19. The diagram consists of two right-angled triangles, *QPS* and *QRS*.
Rajah di bawah terdiri daripada dua buah segi tiga bersudut tegak, QPS dan QRS.



Find the value of *y*.
Cari nilai y.

- **A** 7
- **B** 12
- **C** 20
- **D** 28

20. In the diagram, *PQRS* is a trapezium and *QRT* is a right-angled triangle.
Dalam rajah di bawah, PQRS ialah sebuah trapezium dan QRT ialah sebuah segi tiga bersudut tegak.



Find the area, in cm^2, of the shaded region.
Cari luas, dalam cm^2, kawasan berlorek.

- **A** 52
- **B** 76
- **C** 100
- **D** 148

LIVEWORKSHEETS