

Test # 4

General Science and Ability

Q # 1

Part (c)

Side of Rhombus = 16

To be find = Perimeter = P = ?

Solution

As each side of the perimeter are equal. So, Area of Rhombus is

$P = 4 \times \text{side length}$

Perimeter = $4 \times 16 \text{ cm}$

= 24 cm

Perimeter = 24 cm

Part (D)

6, 17, 39, 72, ... ?

The sequence is proceeding with addition of 11 in first number, 22 in second, 33 in third and 44 in 4th number. So the

72
44
116

resultant value is 116

6, 17, 39, 72, 116

Q # 2

Part (A)

Brother → Q D G S N Q A

SISTER → ?

Brother

B² Q¹⁷

R¹⁸ D⁴

O¹⁵ G

T²⁰ S¹⁹

H⁸ N¹⁴

E⁵ Q¹⁷

R¹⁸ A¹

SISTER

SISTER → Q D S R H R

A¹ B² C³ D⁴ E⁵ F⁶ G⁷

H⁸ I⁹ J¹⁰ K¹¹ L¹² M¹³ N¹⁴

O¹⁵ P¹⁶ Q¹⁷ R¹⁸ S¹⁹ T²⁰ U²¹ V²²

W²³ X²⁴ Y²⁵ Z²⁶

→ S¹⁹ Q¹⁷

I⁹ D⁴

S¹⁹ S¹⁹

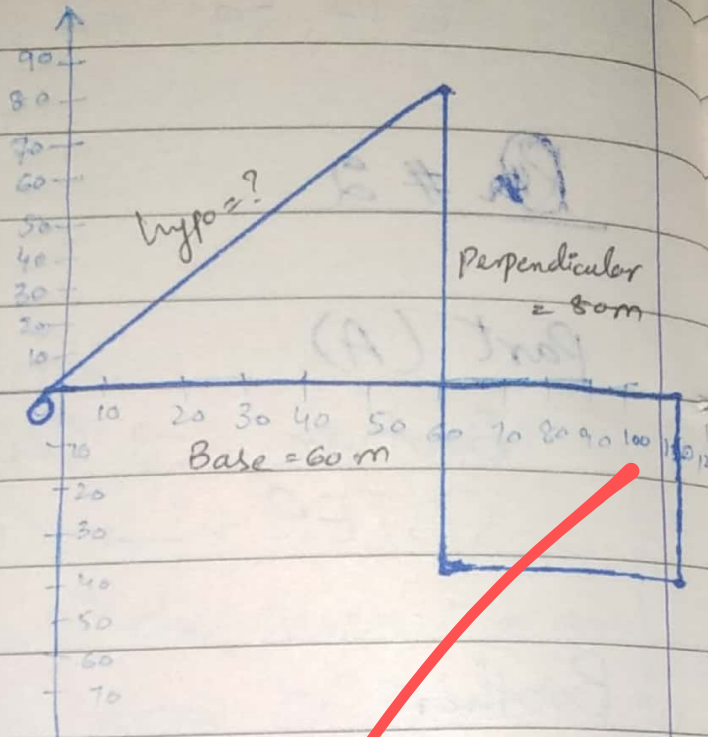
T²⁰ R¹⁸

E⁵ H⁸

R¹⁸ R¹⁸

Part (B)

Solution



Formula

$$\text{hyp}^2 = \text{Base}^2 + \text{Perp}^2$$

$$\text{hyp}^2 = 60^2 + 80^2$$

$$\text{hyp}^2 = 3600 + 6400$$

$$\text{hyp}^2 = 10000$$

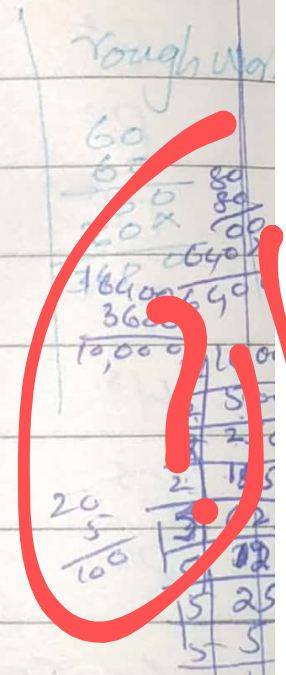
$$\sqrt{\text{hyp}^2} = \sqrt{10000}$$

$$= \sqrt{2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 5 \times 5}$$

$$\text{hyp} = \sqrt{2^2 \times 2^2 \times 5^2 \times 5^2}$$

$$= 2 \times 2 \times 5 \times 5$$

$$\text{hyp} = 100 \text{ m}$$



So, the distance between bench and starting point is 100m.

Part (c)

Given Data

- Ahmed weight thrice as Ali
 - Ali weight five times as Abubakar
 - Abubakar weight half as Nasir
 - Nasir has weight half as Shehbaz
- Solution

Ahmed > Ali > Shehbaz > Nasir > Abubakar

- (i) Who is heaviest in weight?
Ahmed is heaviest in weight
- (ii) Who is lightest in weight?
Abubakar
- (iii) Shehbaz is lighter in weight than which of the two students?
Ahmed and Ali
- (iv) Shehbaz is heavier than which of the two students?
Nasir and Abubakar
- (v) Show the descending order of weights of the student.

M T W T F S

H/W - C/W

DATE: ___ / ___ / 20___

Ahmed < Ali < ~~Ab~~Shehbaz < Nasir
< Abubakar