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Test : GSA (4)

QNo 1: (C) calculate perimeter of Rhombus with each side equal to 6cm.

Rhombus:

Rhombus has four equal sides so:

Perimeter of Rhombus =  $a + b + c + d$

$$P = 6 + 6 + 6 + 6$$

$$= 24 \text{ cm}$$

$$P = 24 \text{ cm}$$

(d) Find the next term:

6, 17, 39, 72, \_\_\_\_\_

QNo 2: (A)

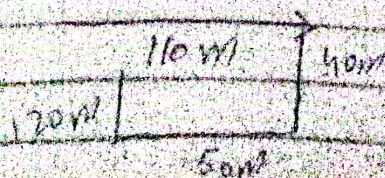
BROTHER

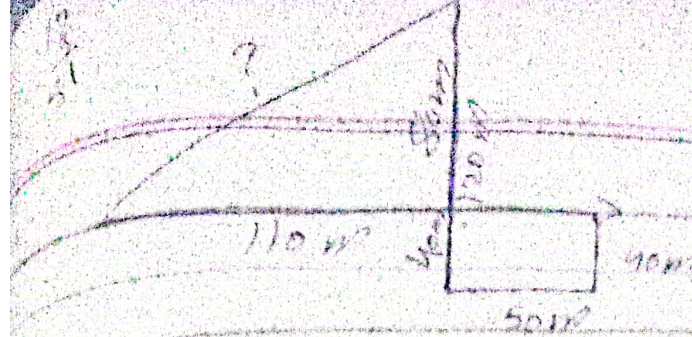
QDGSNOA

SISTER

QDSRHR

QNo 2: (B)





$$120 - 40 = 80 \text{ m}$$

Pythagorean Formula

$$(\text{hyp})^2 = (\text{Base})^2 + (\text{perp})^2$$

$$(\text{hyp})^2 = (110)^2 + (80)^2$$

$$(\text{hyp})^2 = 12100 + 6400$$

Putting square root on both sides

$$\sqrt{(\text{hyp})^2} = \sqrt{12100 + 6400}$$

$$\text{hyp} = \sqrt{18500}$$

$$\text{hyp} =$$

$$\begin{array}{r}
 136 \\
 \hline
 1 \overline{) 18500} \\
 \underline{+1} \quad 1 \\
 23 \quad 85 \\
 \underline{+3} \quad 69 \\
 266 \quad 1500 \\
 \underline{\phantom{+}} \quad 1596 \\
 \phantom{+} \quad 0204
 \end{array}$$

$$\begin{array}{r}
 136 \\
 \hline
 13 \overline{) 18500} \\
 \underline{169} \phantom{00} \\
 160 \phantom{00} \\
 \underline{156} \phantom{00} \\
 4000 \\
 \underline{3920} \\
 8000 \\
 \underline{7840} \\
 1600 \\
 \underline{1560} \\
 400
 \end{array}$$

$$\begin{array}{r}
 120 \\
 \underline{40} \\
 80
 \end{array}$$

$$\begin{array}{r}
 110 \\
 \underline{110} \\
 000
 \end{array}$$

$$\begin{array}{r}
 1100 \\
 \underline{1100} \\
 0000
 \end{array}$$

$$\begin{array}{r}
 12100 \\
 \underline{6400} \\
 18500
 \end{array}$$

$$\begin{array}{r}
 18500 \\
 \underline{18500} \\
 0000
 \end{array}$$

Q. No. 3 (c)

Ahmed weight = 3 Ali

Ali weight = 5 times as Akber

Akber weight =  $\frac{1}{2}$  (class)'s weight

Nasir weight =  $\frac{1}{2}$  Shehbaz weight

(i) Who is the heaviest in weight?

Ahmed is the heaviest in weight.

(ii) Who is the lightest in weight?

Akber is the lightest in weight.

(iii) Shehbaz is lighter in weight

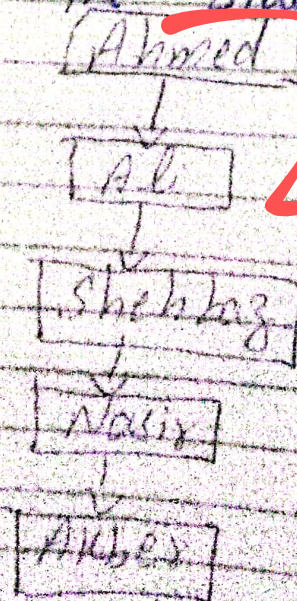
than which of the two students?

Shehbaz is lighter in weight than  
Ahmed and Ali.

(iv) Shehbaz is heavier than which of  
the two students?

Nasir and Akber

(v) Show the descending order of  
weights of the students?



Ques 2: (D)

Area of right triangle =  $\frac{1}{2}$  (base) (height)

$$= \frac{1}{2} (11) (12)$$

area of one tile = 24 cm

Area of lounge = length  $\times$  width

$$= 8 \times 6$$

$$= 48 \text{ m}$$

Cost of one tile = 15 rupees

Area of lounge = 48 m

$$= 48 \times 100 \text{ cm}$$

Area of lounge = 4800 cm

To find out number of tiles placed in lounge

$$= \frac{4800}{24}$$

$$= 200 \text{ tiles}$$

Cost of 200 tiles = 200  $\times$  15

$$= \boxed{3000 \text{ rupees}}$$