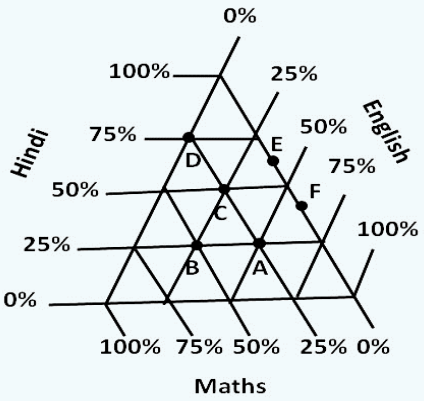
QUESTIONS OF THE WEEK

QUANTITATIVE TECHNIQUES

Direction: Read the chart given below and answer the questions that follow:

The triangular chart given below shows the percentage of marks obtained by six students – A, B, C, D, E and F of class VI in 3 subjects – Hindi, English and Maths.



Total marks obtained in 3 given subjects by
A – 160, B – 192, C – 240, D – 200, E – 160, F – 240.

QUESTIONS OF THE WEEK

QUANTITATIVE TECHNIQUES

1. How many marks did C and D get in Hindi?

(a) 270
(b) 260
(c) 250
(d) 140

QUESTIONS OF THE WEEK

QUANTITATIVE TECHNIQUES

2. Find the difference between the marks obtained by B in Maths and marks obtained by A in English.

(a) 26
(b) 16
(c) 32
(d) 12

QUESTIONS OF THE WEEK

QUANTITATIVE TECHNIQUES

3. The marks obtained by B in Hindi is what percentage of the marks obtained by C in English?

(a) 62%
(b) 50%
(c) 80%
(d) None of these

QUESTIONS OF THE WEEK

QUANTITATIVE TECHNIQUES

4. What is the number of students in the class?

(a) 6
(b) 5
(c) 4
(d) None of these

QUESTIONS OF THE WEEK

QUANTITATIVE TECHNIQUES

HINT:

First, we must understand how to read the data.

⟶ When we look at the side of the triangle representing Hindi marks, we will consider the values depicted by the straight horizontal line which is parallel to the base of the triangle. Corresponding percentages would be – A-25%, B-25%, C-50%, D-75%, E-between 50% and 75% (50+75)/2 = 125/2 = 62.5%, F = (25+50)/2 = 75/2 = 37.5%

⟶ Look at the side representing Maths marks and read the data for A, B, C, D, E and F on the lines which are cutting this side. Corresponding percentage would be-

A-25%, B-50%, C-25%, D-25% E-0%, F-0%

Thus we can tabulate the above percentage as

	Hindi	English	Maths
A	25	50	25
B	25	25	50
C	50	25	25
D	75	0	25
E	62.5	37.5	0
F	37.5	62.5	0

1. Answer. A

Sol. Marks obtained by C in Hindi = $\frac{50}{100}(240)$ = 120

And by D = 75/100 or $\frac{3}{4}(200)$ = 150. Total = 270

2. Answer. B

Sol. Required difference = $\frac{50}{100} \times 192 - \frac{50}{100}(160)$

= 96 – 80 = 16

3. Answer. C

Sol. Required % = $\left[\frac{\frac{25}{100}\times 192}{\frac{25}{100}\times 240}\right] \times 100 = \frac{192\times 10}{24}$ = 80%

4. Answer. A

Sol. The hence answer option (a)