

- Q1] A batsman scored 110 runs, out of which 3 boundaries & 8 sixes. What % of his total score did he make by running?

Ans total runs = 110
 boundaries = $3 \times 4 = 12$ runs
 six = $8 \times 6 = 48$
 $48 + 12 = 60$ runs

Runs by running = $110 - 60 = 50$

% = $\frac{50}{110} \times 100 = \frac{500}{11} = 45 \frac{5}{11} \%$

$$\begin{array}{r} 95 \\ 11 \overline{) 500} \\ \underline{-44} \\ 60 \\ \underline{-55} \\ 5 \end{array}$$

- Q2] Two students appeared at exam. One of them got 9 more than other & his marks was 56% of sum of their marks. What are his marks?

Let marks = $x, x+9$

Sum = $x + x + 9 = 2x + 9$

56% of Sum = $(x+9)$

$56 \times \frac{2x+9}{100} = x+9$

$56(2x+9) = (x+9) 100$

$112x + 504 = 100x + 900$

$12x = 396$

$x = \frac{396}{12} = 33$

$x+9 = 42$

$(33, 42)$

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A fruit seller had some apples. He sells 40% of them & still has 420. Earlier he had?

Ans

$$\text{let total} = x$$

$$\text{after selling 40\%} \rightarrow \left(x - 40 \times \frac{x}{100} \right) = 420$$

$$\frac{100x - 40x}{100} = 420$$

$$\frac{60x}{100} = 420 \rightarrow x = \frac{420 \times 100}{60}$$

$$x = 700$$

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What percentage of no.s from 1 to 70 have 1 or 9 in units digit?

Ans

$$9, 19, 29, 39, 49, 59, 69 = 7$$

$$1 - - - + 7$$

$$\% \rightarrow \frac{14}{70} \times 100 = 20\%$$

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If $A = x\%$ of y & $B = y\%$ of x , which is true

a)

$$A < B$$

b)

$$A > B$$

c)

if $x < y$ then $A > B$

☒ d)

None

Ans

$$\text{None } A = x\% \text{ of } y = \frac{xy}{100} = y\% \text{ of } x = B$$