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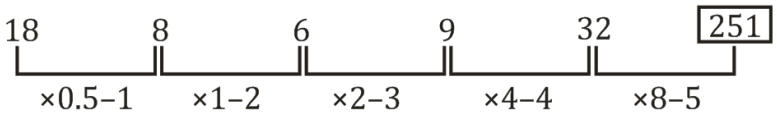
Solutions

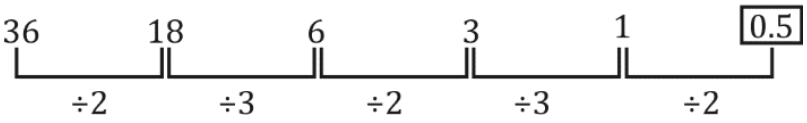
S66. Ans.(c)

Sol.



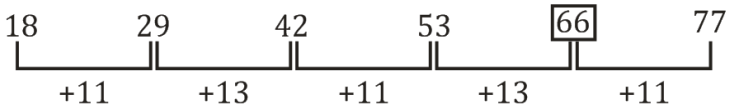
S67. Ans.(a)

Sol.



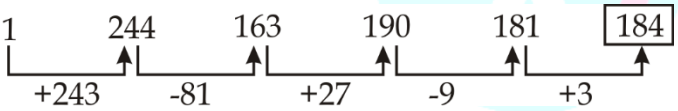
S68. Ans.(d)

Sol.



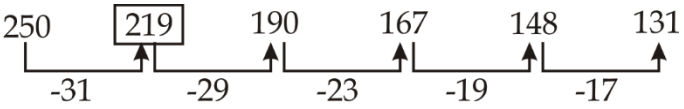
S69. Ans.(b)

Sol.



S70. Ans.(e)

Sol.



S71. Ans.(c)

Sol. Required difference

$$= \frac{(24+16)-(18+12)}{100} \times 300$$

$$= (40-30) \times 3 = 30$$

$$= 30$$

S72. Ans.(e)

Sol. Total number of students who gave exam in August 2017

$$= 300 \times \frac{120}{100} = 360$$

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S73. Ans.(a)
Sol. Required central angle $= 16 \times 3.6 = 57.6°$

S74. Ans.(b)
Sol. Required average
$= \frac{1}{3}\left(\frac{13+18+24}{100}\right) \times 300 = 55$

S75. Ans.(d)
Sol. Required Ratio
$= \frac{17+16+18}{13+17+24} = \frac{51}{54} = \frac{17}{18}$

S76. Ans.(a)
Sol.
$? = \sqrt{16 \times 15 + 24 \times 12 + 97}$
$? = \sqrt{240 + 288 + 97}$
$? = \sqrt{625}$
$? = 25$

S77. Ans.(a)
Sol.
$? = \frac{28}{100} \times 420 + \frac{36}{100} \times 540$
? = 117.6 +194.4
? = 312

S78. Ans.(c)
Sol. 75% × 450 + 25% × 850 = ?
$? = \frac{25}{100}[3 \times 450 + 850] = \frac{1}{4}[2200] = 550$

S79. Ans.(e)
Sol. $\sqrt{?} = 104 - \sqrt{7396}$
$\sqrt{?} = 104 - 86$
$? = (18)^2 = 324$

S80. Ans.(d)
Sol. Sum of present ages of A, B and C = 66 years
Sum of present age of B and C = $18 \times 2 + 6 = 42$
Present age of A = $66 - 42 = 24$
A's age nine years hence = $24 + 9 = 33$ years

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S81. Ans.(d)

Sol. Let speed of boat in still water and speed of stream be 8x and x respectively.

ATQ,

$\frac{67.5}{2.5} = 8x + x$

$x = \frac{27}{9}$

$x = 3$

Required difference = $8x - x = 7x = 7 \times 3 = 21$

S82. Ans.(c)

Sol. Breadth of rectangle = x metre

Length = (x+ 6) metre

∴ 2(x+ 6 +x) = 84

⇒ 2x = 42 – 6 = 36

⇒ x= 18

∴ Length = 18 + 6 = 24 metre

∴ Area of rectangle

= Length × Breadth

= 18 × 24

= 432 sq. metre

S83. Ans.(b)

Sol. Overall rate for 2 years at 20% p.a compounded yearly is equivalent to $20 + 20 + \frac{20 \times 20}{100} = 44\%$

ATQ,

44% of sum = 1716

100% of sum = 3900

Simple interest earned = $\frac{3900 \times 15 \times 3}{100}$ = Rs. 1755

S84. Ans.(c)

Sol. Let cost price of article = 100x

ATQ,

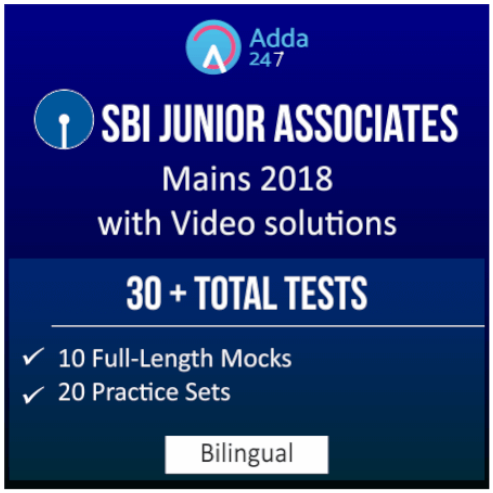
$42x - 18x = 110.4$

$24x = 110.4$

$x = 4.6$

Cost price of article = $4.6 \times 100 = 460$

Selling price to earn 25% profit = $460 \times \frac{125}{100}$ = Rs 575



S85. Ans.(c)
Sol.

Efficiency		Total work
3	← A →	20
+ 4	← B →	15
7	← A + B	

> 60

Work done by A in last 6 days = 6 × 3 = 18 work.
Remaining work done by A + B = 60 – 18 = 42 work
B left the work after = $\frac{42}{7}$ = 6 days.

S86. Ans.(e)
Sol.
(i) $x^2 = 196$
$x = \pm 14$
(ii) $y^2 + 2y - 48 = 0$
$y^2 + 8y - 6y - 48 = 0$
$y(y + 8) - 6(y + 8) = 0$
$(y - 6)(y + 8) = 0$
$y = 6, -8$
No relation can be established between x and y

S87. Ans.(e)
Sol.
(i) $x^2 - 11x + 24 = 0$
$x^2 - 8x - 3x + 24 = 0$
$x(x - 8) - 3(x - 8) = 0$
$(x - 3)(x - 8) = 0$
$x = 8, 3$
(ii) $y^2 - 14y + 45 = 0$
$y^2 - 9y - 5y + 45 = 0$
$y(y - 9) - 5(y - 9) = 0$
$(y - 5)(y - 9) = 0$
$y = 5, 9$
No relation can be established between x and y

S88. Ans.(b)
Sol.
(i) $2x^2 - 4x + 2 = 0$
$2x^2 - 2x - 2x + 2 = 0$
$2x(x - 1) - 2(x - 1) = 0$
$(2x - 2)(x - 1) = 0$
$x = 1, 1$

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(ii) $2y^2 - y - 1 = 0$

$2y^2 - 2y + y - 1 = 0$

$2y\ (y - 1) + 1(y - 1) = 0$

$(2y + 1)\ (y - 1) = 0$

$y = -\frac{1}{2}, 1$

$x \geq y$

S89. Ans.(d)

Sol.

(i) $x^2 - 15x + 56 = 0$

$x^2 - 7x - 8x + 56 = 0$

$x(x - 7) - 8\ (x - 7) = 0$

$(x - 8)\ (x - 7) = 0$

$x = 8, 7$

(i) $y = \sqrt{64}$

$y = 8$

$y \geq x$

S90. Ans.(e)

Sol.

(i) $x^2 - x - 6 = 0$

$x^2 - 3x + 2x - 6 = 0$

$x\ (x - 3) + 2\ (x - 3) = 0$

$(x - 3)\ (x + 2) = 0$

$x = 3, -2$

(ii) $y^2 - 6y + 8 = 0$

$y^2 - 2y - 4y + 8 = 0$

$y\ (y - 2) - 4\ (y - 2) = 0$

$(y - 2)\ (y - 4) = 0$

$y = 2, 4$

No relation can be established between x and y

S91. Ans.(a)

Sol.

$\sqrt{441} - \sqrt{144} = \sqrt{?}$

$21 - 12 = \sqrt{?}$

$9 = \sqrt{?}$

$? = 81$

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S92. Ans.(c)
Sol.
$18\frac{2}{3} - 7\frac{1}{4} = ? + 1\frac{1}{2}$
$18 - 7 + \frac{2}{3} - \frac{1}{4} = ? + 1 + \frac{1}{2}$
$10 + \frac{2}{3} - \frac{1}{4} - \frac{1}{2} = ?$
$10 + \frac{8-3-6}{12} = ?$
$10 - \frac{1}{12} = ?$
$9\frac{11}{12} = ?$

S93. Ans.(d)
Sol.
$\sqrt{484} \times \sqrt{169} = ? + 50\%\ \text{of}\ 312$
$22 \times 13 = ? + \frac{50}{100} \times 312$
$286 = ? + 156$
$? = 130$

S94. Ans.(b)
Sol.
$15^2 + 36^2 = ? \times \sqrt[3]{2197}$
$225 + 1296 = ? \times 13$
$\frac{1521}{13} = ?$
$117 = ?$

S95. Ans.(e)
Sol. Let cost price of article = 100x
Selling price of one article = 120x
ATQ,
$3 \times 20x - 2 \times 20x = 80$
$20x = 80$
$x = 4$
Cost price of article = Rs 400

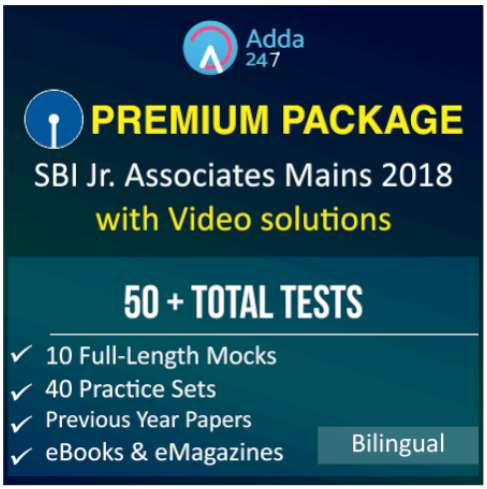
S96. Ans.(a)
Sol.
Quantity I:
Length of train 'A' = x
Length of train 'B' = 0.5x
ATQ,
$x + 0.5x = 12 \times (25 + 15)$
$1.5x = 480$
$x = 320$ meters
Quantity II: 160 meters
Quantity I > Quantity II

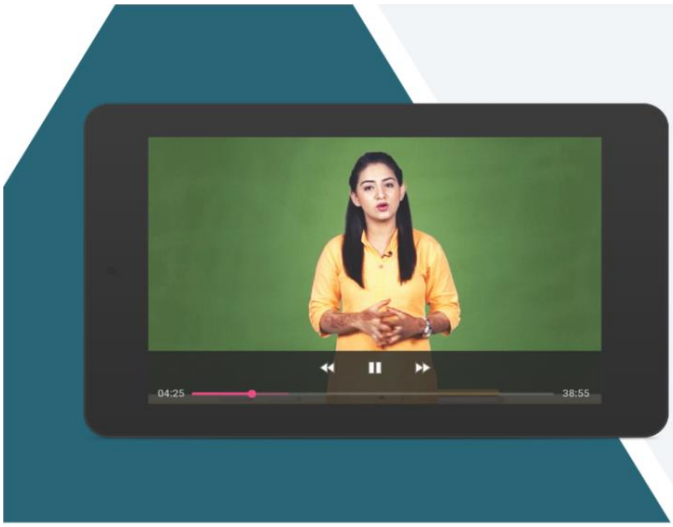
S97. Ans.(b)
Sol. Let average of a, b and c be x
$a + b + c = 3x$
And, $b + c + d = 3x + 3$
$\Rightarrow d - a = 3$
And, $d + a = 39$
$d = 21$ and $a = 18$
Quantity I:
$a = 18$
Quantity II: 21
Quantity II > Quantity I

S98. Ans.(a)
Sol. Quantity I: Due to leakage only 80% of the cistern is filled this means 20% of tank is leaked out by leakage which is equal to 60 liters
20% = 60
100% = 300liters
Capacity of tank = 300 liters
Quantity II: 250 liters
Quantity I > Quantity II

S99. Ans.(e)
Sol.
Quantity I:
Let speed of boat in still water and speed of stream be 2x and x respectively
ATQ,
$\Rightarrow 32 = \frac{72}{3x} + \frac{72}{x}$
$\Rightarrow x = \frac{96}{32} = 3$
Downstream speed = $2x + x = 3x = 9$kmph
Quantity II: 9kmph
Quantity I = Quantity II

S100. Ans.(e)
Sol.
Quantity I:
Side of square = $\sqrt{324} = 18$cm
Let length of rectangle be x and breadth of rectangle be $(x-4)$ cm
ATQ,
$x + x - 4 = \frac{4 \times 18}{2} = 36$
$x = 20$
Area of rectangle = $20 \times 16 = 320\text{cm}^2$
Quantity II: 320cm^2
Quantity I = Quantity II





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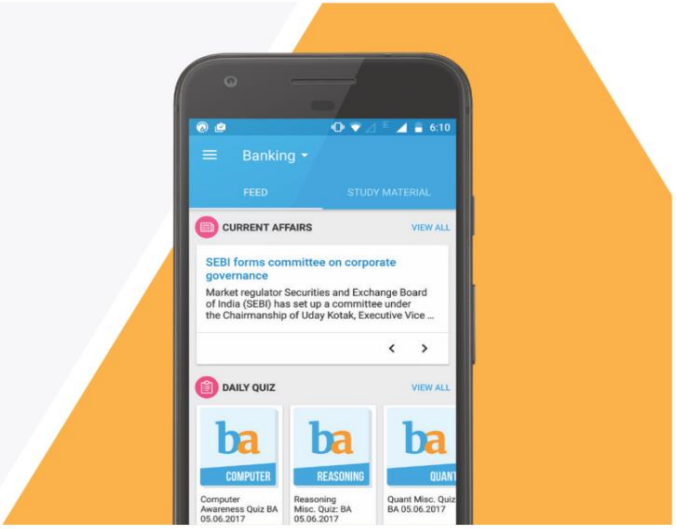

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