| Problem on Ages | |
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| Q.No | Answer |
| 1 | B |
| 2 | **Answer:** Option **D**<br>**Explanation:**<br>Let C's age be $x$ years. Then, B's age = $2x$ years. A's age = $(2x + 2)$ years.<br>$\therefore$ $(2x + 2) + 2x + x = 27$<br>$\Rightarrow$ $5x = 25$<br>$\Rightarrow$ $x = 5$.<br>Hence, B's age = $2x = 10$ years. |
| 3 | Correct Option: B<br>Let the present ages of the two Friends be 2x and 3x respectively.<br><br>Then, $\frac{2x - 6}{3x - 6} = \frac{1}{3}$<br><br>$\Rightarrow$ $6x - 18 = 3x - 6$ $\Rightarrow$ $3x = 12$ $\Rightarrow$ $x = 4$.<br>So, required ratio = $(2x + 4) : (3x + 4)$ $\Rightarrow$ $12 : 16$ $\Rightarrow$ $3 : 4$.<br>Hence, option B is correct. |
| 4 | B |
| 5 | **Answer:** Option **A**<br>**Explanation:**<br>Let the present ages of Sameer and Anand be $5x$ years and $4x$ years respectively.<br>Then, $\frac{5x + 3}{4x + 3} = \frac{11}{9}$<br>$\Rightarrow$ $9(5x + 3) = 11(4x + 3)$<br>$\Rightarrow$ $45x + 27 = 44x + 33$<br>$\Rightarrow$ $45x - 44x = 33 - 27$<br>$\Rightarrow$ $x = 6$.<br>$\therefore$ Anand's present age = $4x = 24$ years |
| 6 | A |
| 7 | E |
| 8 | Correct Option: C<br>Let the ages of Ankit, Narendra and Satendra 5 years ago be 2x, 3x and 4x years respectively.<br>So, total of their present ages will be,<br>$(2x + 5) + (3x + 5) + (4x + 5) = 96$<br>$9x + 15 = 96$<br>$9x = 81$<br>$x = 9$.<br>So, the present age of Satendra = $4x + 5 = 4 \times 9 + 5 = 41$ years.<br>Hence, option C is correct. |
| 9 | Correct Option: D<br>Let the age of Omkar and Nitin five years ago 8x and 7x respectively.<br>Omkar's present age = $(8x + 5)$<br>Nitin's present age = $(7x + 5)$<br>Now, as per the equ.<br><br>Then, $\frac{(8x + 5) + 3}{(7x + 5) + 3} = \frac{12}{11} \Rightarrow \frac{(8x + 8)}{(7x + 8)} = \frac{12}{11}$<br><br>On cross multiplication, we get<br>$\Rightarrow$ $88x + 88 = 84x + 96$<br>$\Rightarrow$ $4x = 8$ $\Rightarrow$ $x = 2$.<br>$\therefore$ Nitin's present age = $(7x + 5) = (7 \times 2 + 5) = 19$ years.<br>Hence, option D is correct. |
| 10 | D |
| 11 | B |
| 12 | Correct Option: C<br>Let the current age of Mohan be T years.<br>The sum of ages of Mohan and Jill is 53 years. |

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| | ⇒ Age of Jill = (53 – T) years<br>After 5 years, the ratio of ages of Mohan and Jill will be 3 : 4.<br><br>$\Rightarrow \frac{T+5}{53-T+5} = \frac{3}{4}$<br><br>⇒ 4T + 20 = 174 – 3T<br><br>$\Rightarrow T = \frac{154}{7} = 22$<br>So, Mohan is 22 years old.<br>Mohan was 7 years younger to Raman 5 years back. Even now, Mohan would be 7 years younger to Raman.<br>∴ Current age of Raman = 29 years.<br>Hence, option (C) is correct. |
| 13 | **Answer:** Option **A**<br>**Explanation:**<br>Let the ages of Kunal and Sagar 6 years ago be 6*x* and 5*x* years respectively.<br>Then, $\frac{(6x+6)+4}{(5x+6)+4} = \frac{11}{10}$<br>$\Rightarrow$ 10(6*x* + 10) = 11(5*x* + 10)<br>$\Rightarrow$ 5*x* = 10<br>$\Rightarrow$ *x* = 2.<br>$\therefore$ Sagar's present age = (5*x* + 6) = 16 years. |
| 14 | **Answer:** Option **C**<br>**Explanation:**<br>Let the mother's present age be *x* years.<br>Then, the person's present age = $\left(\frac{2}{5}x\right)$ years.<br>$\therefore \left(\frac{2}{5}x + 8\right) = \frac{1}{2}(x+8)$<br>$\Rightarrow$ 2(2*x* + 40) = 5(*x* + 8)<br>$\Rightarrow$ *x* = 40. |
| 15 | **Answer:** Option **B**<br>**Explanation:**<br>Let the ages of father and son 10 years ago be 3*x* and *x* years respectively.<br>Then, (3*x* + 10) + 10 = 2[(*x* + 10) + 10]<br>$\Rightarrow$ 3*x* + 20 = 2*x* + 40<br>$\Rightarrow$ *x* = 20.<br>$\therefore$ Required ratio = (3*x* + 10) : (*x* + 10) = 70 : 30 = 7 : 3. |
| 16 | **Answer:** Option **D**<br>**Explanation:**<br>**Given that:**<br>1. The difference of age b/w R and Q = The difference of age b/w Q and T.<br>2. Sum of age of R and T is 50 i.e. (R + T) = 50.<br>**Question: R - Q = ?.**<br>Explanation:<br>R - Q = Q - T<br>(R + T) = 2Q<br>Now given that, (R + T) = 50<br>So, 50 = 2Q and therefore Q = 25.<br>Question is (R - Q) = ?<br>Here we know the value(age) of Q (25), but we don't know the age of R.<br>Therefore, (R-Q) cannot be determined. |
| 17 | Correct Option: D<br>Let the age of Sneha = x, her cousin's age = x – 8, Cousin's mother age = x – 8 + 24<br>Ratio between the ages of Sneha and her cousin's mother is 7 : 11 |

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| | x : x + 16 = 7 : 11<br>11 × x = (x + 16) × 7<br>11x = 7x + 112<br>4x = 112<br>x = 28<br>Sneha's cousin age = 28 – 8 = 20<br>After 3 years Sneha's cousin age = 20 + 3 = 23 years<br>Hence, option D is correct. |
| 18 | Correct Option: B<br>Esha : her mother = 1 : 4<br>Her mother : Her brother = 9 : 1<br>sha : Her mother : Her brother = 9 : 36 : 4<br>Accoding to the question,<br>9x – 4x = 5<br>5x = 5<br>x = 1<br>Esha mother age after 4 years = 36 × 1 + 4 = 40 years |
| 19 | Correct Option: E<br>Before 30 years, Neeraj's age = x years, Meetali's age = x – 4 years<br>According to the question,<br>2(x – 4) – 1.5x = 5<br>2x – 8 – 1.5x = 5<br>0.5x = 5 + 8<br>0.5x = 13<br>x = 26<br>Meetali's present age = 26 – 4 +30 = 52<br>Neeraj' present age = 26 + 30 = 56<br>Hence, option E is correct. |
| 20 | **Answer : B (60)**<br>Explanation –<br>Let Anuj's age be X<br>Gopal is 2 years younger than Mohan, so Gopal is 3 years (i.e 5 – 2 = 3)<br>If Arun had born 6 years before, his age would had been X – 6. As per the question, X – 6 should be 18 times as that of Gokul's age.<br>i.e. (X – 6) /18= 3<br>X-6 =3 x 18<br>x = 60 |
| 21 | **Answer – B (2)**<br>Explanation –<br>Let Monit's present age be X years. Then, father's present age = (X + 3X) years = 4X years.<br>(4X + 8) =5/2 x (X + 8)<br>8X + 16 = 5X + 40<br>3X = 24 so, X=8<br>Hence, required ratio = (4X + 16) / (X + 16)=48 / 24 = 2 |
| 22 | Correct Option: E<br>Let the present age of Navya = 5x, Reet = 6x<br>After 8 years,<br>5x + 8 : 6x + 8 = 7 : 8<br>(5x + 8) 8 : (6x + 8) 7<br>40x + 64 = 42x + 56<br>64 – 56 = 42x – 40x<br>8 = 2x<br>x = 4<br>Present age of Navya = 20, Reet = 24<br>After 10 years the total of their ages = 20 + 10 + 24 + 10 = 64 |
| 23 | Correct Option: E<br>Since Monika and Neha are twins so their ages be same. Let their ages be x and and age of Bharti be y, then,<br>x + x = y **...(i)** |

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| | and $\frac{(x-3)}{(y-3)} = \frac{5}{11}$<br><br>⇒ 11x – 33 = 5y – 15<br>⇒ 11x – 5y = 18<br>Now, from equation (i) putting y in terms of x, we get<br>11x – 10x = 18<br>⇒ x = 18<br>So, the age of Bharti 7 years hence will be 18 + 18 + 7 = 43 years.<br>Hence, option E is correct. |
| 24 | Correct Option: C<br>Let the present ages of Kidambi and Srikanth be x years and y years respectively.<br>As per the question,<br>(x + 14) + (y + 14) = 2(x + y)<br>x + y + 28 = 2x + 2y<br>x + y = 28 **.....(i)**<br>Also,<br>y + 8 = x<br>x – y = 8 **.....(ii)**<br>Solving eqns (i) and (ii), we get<br>x = 18 and y = 10<br>Therefore, Present ages of Kidambi and Srikanth is 18 years and 10 years respectively<br>Hence, option C is correct. |
| 25 | E |
| 26 | Answer – **C. 25 years**<br>**Explanation :**<br>Present age of Ajay = x ; Present age of Ajay's sister = y<br>x = (x-6)(5/4)<br>x = 30<br>present age of Ajay's brother = 30 – 5 = 25 |
| 27 | C |
| 28 | Answer: B) 9 yrs<br>Explanation:<br>Let the present ages of A and B be 'x' and 'y' respectively<br>From the given data,<br>[(x-2) + (y-2)]/2 = 26<br>=> x+y = 56<br>But given the age of A, 5 years hence is 40 yrs => present age of A = 40 - 5 = 35 yrs<br>=> x = 35 => y = 56 - 35 = 21<br>=> Age of B = 21 yrs<br>Given B is 5 years younger to C,<br>=> Age of C = 21 + 5 = 26 yrs<br>=> Required Difference between ages of A and C = 35 - 26 = 9 yrs. |
| 29 | Answer: B) 10<br>Explanation:<br>Raj Tarun's age = 0 when he was born.<br>Then, given his brother is 6 years old.<br>Then his father is 6 + 32 = 38 when Raj Tarun was born<br>And his mother is 3 years yonger than his father => so his mother was 35 years old when Raj Tarun was born and his sister is 25 year younger than his mother<br>so Raj Tarun's sister was 10 years old when Raj Tarun was born. |

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| 30 | **Answer:** D) 78 yrs<br><br>**Explanation:**<br>Let Hari Ram's present age = x<br>Then, his son's age = x/3<br>Father's age = 5x/2<br>$\frac{x+\frac{x}{3}+\frac{5}{2}x}{3} = 46$<br>$\Rightarrow x = 36 \text{ yrs}$<br>Now the required difference = $\frac{5}{2}x36 - \frac{36}{3} = 78 \text{ yrs}$ |
| 31 | **Answer:** Option **E**<br>**Explanation:**<br>I. S = 5D $\Rightarrow$ D = $\frac{S}{5}$ ....(i)<br>II. S - 5 = 25 (D - 5) $\Leftrightarrow$ S = 25D - 120 ....(ii)<br>Using (i) in (ii), we get S = $\left(25 \times \frac{S}{5}\right)$ - 120<br>$\Rightarrow$ 4S = 120.<br>$\Rightarrow$ S = 30.<br>Thus, I and II both together give the answer. So, correct answer is (E). |
| 32 | **Answer:** Option **C**<br>**Explanation:**<br>Let Divya's present age be D years and Shruti's present age b S years<br>Then, D = 2 x S $\Leftrightarrow$ D - 2S = 0 ....(i)<br>I. $\frac{D+5}{S+5} = \frac{9}{5}$ ....(ii)<br>II. $\frac{D-10}{S-10} = \frac{3}{1}$ ....(iii)<br>From (ii), we get : 5D + 25 = 9S + 45 $\Leftrightarrow$ 5D - 9S = 20 ....(iv)<br>From (iii), we get : D - 10 = 3S - 30 $\Leftrightarrow$ D - 3S = -20 ....(v)<br>Thus, from (i) and (ii), we get the answer.<br>Also, from (i) and (iii), we get the answer.<br>$\therefore$ I alone as well as II alone give the answer. Hence, the correct answer is (C). |
| 33 | **Answer:** Option **D**<br>**Explanation:**<br>II. Let the present ages of Arun and his son be 11*x* and 6*x* years respectively.<br>I. 5 years ago, Arun's age = 2 x His son's age.<br>III. 5 years hence, $\frac{\text{Arun's Age}}{\text{Son's age}} = \frac{12}{7}$<br>Clearly, any two of the above will give Arun's present age.<br>$\therefore$ Correct answer is (D). |
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