



Chapter - 9

Average

CHASE
ACADEMY

Foundation

Solutions

1. (b); Total distance covered = $(20 + 29)$ km = 49 km
Total time taken = $(30 + 40)$ min = 70 min

$$\text{Average speed} = \left(\frac{49}{70} \times 60 \right) = 42 \text{ km/h}$$

2. (c); Let one way distance be 'x'.
 \therefore Total distance = $2x$

$$\text{Total time taken} = \left(\frac{x}{u} + \frac{x}{v} \right)$$

$$\therefore \text{Average speed} = \frac{2x}{\frac{x}{u} + \frac{x}{v}} = \frac{1}{\frac{1}{2} \left(\frac{1}{u} + \frac{1}{v} \right)}$$

3. (b); New mean = $\left(\frac{19 \times 4 + 24}{20} \right) = \frac{100}{20} = 5$

4. (a); Cost of 10 books = Rs $(120 + 150)$ = Rs 270

$$\text{Average cost} = \text{Rs.} \left(\frac{270}{10} \right) = \text{Rs.} 27$$

5. (c); The sum of price of per kg Rice at 10 different places = $4.85 \times 10 = 48.5$
Increased price = $20 \times 3 - 10 \times 1 = 50$ paise
 \therefore Sum of the increased price of rice at 10 different places = $48.50 + 0.50 = 49.0$ Rs.

$$\text{New Average} = \frac{49}{10} = 4.90 \text{ Rs.}$$

6. (d); Total weight of 20 boys = $89.4 \times 20 = 1788$ kg
Increase in weight due to misreading
= $87 - 78 = 9$ kg
Correct weight of 20 boys = $1788 + 9 = 1797$ kg

$$\text{Correct average weight} = \frac{1797}{20} = 89.85 \text{ kg}$$

Shortcut:

Increase in weight = 9 kg.

$$\text{New average} = 89.4 + \frac{9}{20} = 89.85 \text{ kg}$$

7. (a); Sum of the Age of 20 boys = $20 \times 11 = 220$ years
Sum of the Age of 30 girls = $30 \times 12 = 360$ years
Total age of 20 boys and 30 girls = $220 + 360 = 580$ years.

$$\text{Average age of the whole class} = \frac{580}{50} = 11.6 \text{ years}$$

8. (d); Average

$$= \frac{253 + 124 + 255 + 534 + 836 + 375 + 101 + 443 + 760}{9} = 409$$

9. (d); Total even no = $\frac{63 - 11}{2} = \frac{52}{2} = 26$

Sum of the even number between is 11 to 63

$$= \frac{26}{2} [2 \times 12 + (26 - 1) \times 2] = 13 [24 + 50]$$

$$= 13 \times 74 = 962$$

Average of even numbers between 11 to 63

$$= \frac{962}{26} = 37$$

10. (b); Average of all prime numbers between 60 to 90

$$= \frac{61 + 67 + 71 + 73 + 79 + 83 + 89}{7} = \frac{523}{7} = 74.7$$

11. (a); Total age of 5 boys = $16 \times 5 = 80$ years

$$\text{Total age of 4 boys} = \left(16 \frac{3}{12} \right) \times 4 = 16.25 \times 4 = 65$$

The age of the 5th boy = $80 - 65 = 15$ years

12. (b); Total age of 30 girls = $30 \times 13 = 390$ years

Total age of 18 girls = $18 \times 15 = 270$ years

$$\therefore \text{Average Age of remaining 12 girls} = \frac{390 - 270}{12}$$

$$= \frac{120}{12} = 10 \text{ years.}$$

13. (d); Sum of the first 13 Results = $13 \times 60 = 780$

Sum of the first 7 Results = $59 \times 7 = 413$

Sum of the last 7 Results = $7 \times 61 = 427$

$$\therefore 7\text{th Result} = \text{Sum of first 7 Results} + \text{sum of last 7 Results} - \text{sum of 13 Results} = 413 + 427 - 780 = 840 - 780 = 60$$

14. (b); The sum of 9 numbers = $9 \times 50 = 450$

Sixth number = sum of 9 numbers - (Sum of first 5 numbers + sum of last 3 numbers)

$$= 450 - (54 \times 5 + 52 \times 3) = 450 - (270 + 156)$$

$$= 450 - 426 = 24$$

15. (a); Average decreases by 3 months or $\frac{3}{12}$ years.

$$\text{Sum of the age decreased} = 30 \times \frac{3}{12} = \frac{15}{2}$$

$$= 7.5 \text{ years}$$

$$\therefore \text{Age of Neha} = 25 - 7.5 = 17.5$$



16. (b); Let the total number of workers = x
According to the question
 $60x = 12 \times 400 + 56(x - 12)$
 $60x - 56x = 4800 - 672$
 $4x = 4128 \Rightarrow x = 1032$
17. (c); Let average of 9 innings = x , Total run = $9x$
According to the question
 $\frac{9x + 100}{10} = x + 8$
 $9x + 100 = 10x + 80 \Rightarrow x = 20$
Average after 10 innings = $20 + 8 = 28$
Shortcut:
Average at the end of 10th innings
= $(100 - 9 \times 8) = 28$ runs.
18. (d); Total age of all the three boys = $3 \times 15 = 45$ years
Given ratio of ages = $3 : 5 : 7 = \frac{7}{3+5+7} \times 45$
= 21 years.
19. (a); Let average expenditure of 9 person = x
 \therefore According to the question
 $12 \times 8 + (x + 16) = 9x \Rightarrow 8x = 112$
 $\Rightarrow x = \frac{112}{8} = 14$
Total money spent = $9x = 9 \times 14 = 126$ Rs.
20. (c); Let the total consecutive even number = x
 \therefore Average of consecutive even no = $x + 1$
 $x + 1 = 101 \Rightarrow x = 100$
 \therefore Sum = $101 \times 100 = 10100$
21. (d); Let the total consecutive natural number = N
 \therefore Average of consecutive natural number
 $= \frac{N+1}{2} \Rightarrow \frac{N+1}{2} = 20.5 \Rightarrow N + 1 = 41 \Rightarrow N = 40$
 \therefore Sum = $40 \times 20.5 = 820$
22. (c); Sum of m numbers = $n^2 \times m$
Sum of n numbers = $m^2 \times n$
Average of $(m + n) = \frac{n^2 \times m + m^2 \times n}{m + n}$
 $= \frac{mn(n + m)}{(n + m)} = mn$
23. (c); Let A is x
 \therefore Then $E = x + 8$
According to the question
 $\frac{x + x + 8}{2} = 46 \Rightarrow 2x = 84 \Rightarrow x = 42$
Largest number is = $42 + 8 \Rightarrow 50$
24. (b); Let the First no = x
Sum of the other numbers = $4x$
According to the question
 $\frac{x + 4x}{3} = 60 \Rightarrow 5x = 180 \Rightarrow x = 36$
25. (a); Sum of the Salary of 15 person is = 5500×15
= 82500
Sum of the Salary of 16 person is = 5700×16
= 91200
Salary of this one person is = $91200 - 82500$
= 8700
26. (a); Total weight of 24 students = $24 \times 35 = 840$ kg
Total weight after teacher is added = 25×35.4
= 885 kg
Weight of teacher = $885 - 840 = 45$ kg
27. (a); Let the run scored in 11th innings = x
 \therefore According to the question
 $10 \times 32 + x = 11 \times (32 + 4)$
 $320 + x = 36 \times 11 \Rightarrow x = 396 - 320 = 76$
Shortcut:
He must score 32 runs and some extra runs.
So, in the next innings he should score:
 $32 + 11 \times 4 = 76$
28. (d); Total price of 10 kg Rice = $12 \times 10 \Rightarrow 120$
Total price of 6 kg Rice = $16 \times 6 \Rightarrow 96$
 \therefore Average = $\frac{120 + 96}{16} = \frac{216}{16} = 13.50$ kg
29. (c); Let the average of remaining two quantities is y .
According to the question
 $\frac{3 \times 4 + 2 \times y}{5} = 6 \Rightarrow 12 + 2y = 30 \Rightarrow y = 9$
Hence the average of remaining two quantities is 9.
30. (c); Average of five numbers
 $\Rightarrow \frac{a + b + c + d + e}{5} = 6.9 \Rightarrow a + b + c + d + e = 34.5$
Let the number is deleted be e . The average of remaining 4 number is
 $\Rightarrow \frac{a + b + c + d}{4} = 4.4 \Rightarrow a + b + c + d = 17.6$
Value of deleted number = $34.5 - 17.6 = 16.9$
31. (c); Total age of Seema + Sapna + Asha + Kavita + Atrye = $40 \times 5 = 200$
Seema + Sapna = $35 \times 2 = 70$
Asha + Kavita = $42 \times 2 = 84$
 \therefore Age of Atrye = $200 - (70 + 84) = 46$ years



32. (c); Total first 6 number = $10.5 \times 6 = 63$
 Total of last 6 number = $11.4 \times 6 = 68.4$
 Total of all 11 number = $11 \times 10.9 = 119.9$
 \therefore Sixth number = $63 + 68.4 - 119.9 = 11.5$
 Hence the middle number is = 11.5

33. (b); Total temp of mon + tues + wed + thus
 = $4 \times 48^\circ\text{C} = 192^\circ\text{C}$
 Temp on mon = 42°C
 temp on Tue + Wed + Thus = $192^\circ - 42^\circ = 150^\circ\text{C}$
 Total temp for tue + wed + thus + Fri
 = $52^\circ \times 4 = 208^\circ\text{C}$
 Tem on Friday = $208^\circ - 150^\circ = 58^\circ\text{C}$

34. (a); Sum of first 25 multiples of 5 = $5(1 + 2 + 3 \dots 25)$

$$\frac{5 \times n(n+1)}{2} = 5 \times \frac{25 \times 26}{2} = 1625$$

$$\text{Average} = \frac{1625}{25} = 65$$

35. (c); Total expenditure of a man in year 1999
 = $76535 + 88165 = 164700$

$$\text{Average} = \frac{164700}{365} = 451.23$$

36. (a); Let the 7th number be x.
 According to the question

$$6 \times 8 + x = 7 \times 10 \Rightarrow x = 70 - 48 = 22$$

37. (c); Total expenditure for first 5 months = 120×5
 = 600 Rs.

$$\begin{aligned} \text{Total expenditure for next 7 months} &= 130 \times 7 \\ &= 910 \text{ Rs.} \end{aligned}$$

$$\begin{aligned} \text{Total income} &= \text{Total expenditure of the whole} \\ &\text{year} + \text{saving} \\ &= 600 + 910 + 290 = 1800 \text{ Rs} \end{aligned}$$

$$\text{Monthly average income} = \frac{1800}{12} = 150 \text{ Rs.}$$

38. (d); Total monthly salary of 20 workers in an office
 = $1900 \times 20 = \text{Rs. } 38000$
 Total monthly salary of 20 workers and manager
 = $2000 \times 21 = \text{Rs. } 42000$
 Manager monthly salary = $42000 - 38000$
 = Rs. 4000

$$\text{Manager annual salary} = 12 \times 4000 = \text{Rs. } 48000$$

39. (c); Total age of men = $15 \times 10 = 150$
 Total age of women = $25 \times 12 = 300$

$$\text{Average age of the whole club} = \frac{150 + 300}{40}$$

$$= \frac{450}{40} = 11.25 \text{ years.}$$

40. (a); Let the average of rest results = x
 According to the question
 $14 \times 2 + x \times 10 = 15 \times 12 \Rightarrow 10x = 180 - 28$

$$x = \frac{152}{10} \Rightarrow x = 15.2$$

Hence average of the rest is 15.2

Moderate

1. (a); Let the side of square be a
 and average speed of aeroplane x

$$\therefore \frac{a}{200} + \frac{a}{400} + \frac{a}{600} + \frac{a}{800} = \frac{4a}{x}$$

$$\Rightarrow \frac{12a + 6a + 4a + 3a}{2400} = \frac{4a}{x} \Rightarrow \frac{25}{2400} = \frac{4}{x}$$

$$\therefore x = 384$$

Hence average speed of a aeroplane = 384 km/hr

2. (d); Let the average speed of a cyclist = x
 Total distance = 3 km

$$\therefore \frac{1}{20} + \frac{1}{16} + \frac{1}{12} = \frac{3}{x} \Rightarrow \frac{12 + 15 + 20}{240} = \frac{3}{x}$$

$$\frac{47}{240} = \frac{3}{x} \Rightarrow x = 15.32 \text{ km/hr}$$

Average speed of cyclist is 15.32 km/hr

3. (a); total marks obtained by 150 students.
 = $100 \times 30 + 50 \times 60 = 6000$

$$\text{mean marks} = \frac{6000}{150} = 40$$

4. (b); Let the weight of teacher = x kg
 and average weight of students and teacher
 = $42 + .40 = 42.40 \text{ kg}$

$$\therefore 34 \times 42 + x = 35(42.4) \Rightarrow x = 1484 - 1428 = 56 \text{ kg}$$

Hence weight of the teacher is 56 kg.

Shortcut:

The mean rises by 0.4 kg and total number of persons = 35

$$\text{Weight of teacher} = 42 + 0.4 \times 35 = 56 \text{ kg}$$

5. (a); Let the weight of teacher = x kg
 According to the question

$$\therefore 21 \times 64 + x = 22 \times 65$$

$$x = 1430 - 1344 \Rightarrow x = 86 \text{ kg}$$



Hence weight of the teacher is 86 kg.

Shortcut:

$$\text{Teacher's weight} = 64 + 22 \times 1 = 86 \text{ kg}$$

6. (a); Total price of all the articles.

$$= 5 \times 25 + 10 \times 50 + 15 \times 35$$

$$= 125 + 500 + 525 = 1150 \text{ Rs.}$$

$$\text{Average price} = \frac{1150}{30} = 38.33 \text{ Rs.}$$

7. (a); Let the no of boys in a class = x

$$\therefore x \times 70 + (150 - x) 55 = 150 \times 60$$

$$70x - 55x = 9000 - 8250 \Rightarrow 15x = 750$$

$$x = 50 \Rightarrow \text{No. of boys} = 50$$

8. (d); Total score of a class of m students = 70 × m

$$\text{Total score of a class of n students} = 91 \times n$$

$$\therefore 70m + 91n = (m + n) 80$$

$$70m + 91n = 80m + 80n$$

$$11n = 10m \Rightarrow \frac{n}{m} = \frac{10}{11}$$

9. (b); Let the no of passed student = x

According to the question

$$x \times 39 + 15(120 - x) = 120 \times 35$$

$$39x - 15x = 4200 - 1800$$

$$24x = 2400 \Rightarrow x = 100$$

Hence no of passes student is 100.

10. (a); Here a = 9 km, b = 25 km, c = 30 km

$$P = 3 \text{ km/hr } Q = 5 \text{ km/hr } R = 10 \text{ km/hr}$$

\therefore Required average speed

$$= \frac{a+b+c}{\frac{a}{P} + \frac{b}{Q} + \frac{c}{R}} = \frac{9+25+30}{\frac{9}{3} + \frac{25}{5} + \frac{30}{10}}$$

$$= \frac{64}{3+5+3} = \frac{64}{11} = 5\frac{9}{11} \text{ km/hr}$$

$$\text{Hence average speed of a person} = 5\frac{9}{11} \text{ km/h}$$

11. (c); Total present age of Pand Q = 15 × 2 + 10 = 40 years.

Total present age of P, Q and R

$$= 20 \times 3 = 60 \text{ years.}$$

$$P + Q + R = 60$$

(Present age) R = 20 years.

$$\text{R age after 10 years} = 20 + 10 = 30 \text{ years.}$$

12. (c); Let the total no of non officer staff in an office = x

According to the question

$$750 \times 15 + 250x = 500(x + 15)$$

$$500x - 250x = 11250 - 7500$$

$$250x = 3750 \Rightarrow x = \frac{3750}{250} = 15$$

Hence no of non-officer staff = 15

13. (b); Total Present age of family of 5 members

$$= 27 \times 5 + 3 \times 5 = 135 + 15 = 150 \text{ years}$$

Total present age of a family including child

$$= 27 \times 6 = 162 \text{ years}$$

$$\text{age of a child} = 162 - 150 = 12 \text{ years.}$$

14. (d); Total age of 5 sisters = 100 years.

Total age of a group of sister at the birth of youngest sister = 100 - 4 × 5 = 80 years.

$$\text{Average age of group of sisters} = \frac{80}{4} = 20 \text{ years.}$$

15. (b); Sum of the weight of A, B, C and D = 67 × 4 = 268 kg

$$\text{Sum of the weight of A, B, C, D, E} = 65 \times 5 = 325 \text{ kg}$$

$$\text{weight of E} = 325 - 268 = 57 \text{ kg}$$

$$\text{Weight of F} = 57 + 4 = 61 \text{ kg}$$

$$\text{Total weight of F, B, C, D, E} = 64 \times 5 = 320 \text{ kg}$$

$$\text{Total weight of B, C, D, E} = 320 - 61 = 259 \text{ kg.}$$

$$\therefore \text{Weight of A} = 325 - 259 = 66 \text{ kg.}$$

Shortcut:

$$\text{Weight of E} = (67 - 2) - (4 \times 2) = 57$$

$$\text{Weight of F} = 61 \text{ kg}$$

Average weight decreases by 1 kg on replacing A.

$$\text{So, weight of A} = 61 + 5 \times 1 = 66 \text{ kg}$$

16. (a); Total of a + b + c = 33, c + d + e = 51

$$e + f = 44, e + c = 34, d = 51 - 34 = 17$$

$$\therefore a + b + c + d + e + f = 33 + 17 + 44 = 94$$

$$\text{Average of a, b, c, d, e, f} = \frac{94}{6} = 15\frac{2}{3}$$

17. (a); Total age of a man and his twin born son

$$= 30 \times 3 = 90 \text{ years}$$

given the ratio of father and his twin son

$$= 5 : 2 : 2$$

$$\text{Father's age} = \frac{90}{9} \times 5 = 50 \text{ years}$$

18. (c); Total age of Rakesh and Mohan = 30 years

$$\text{Mohan + Ramesh} = 24 \text{ years}$$

$$\text{Rakesh + Ramesh} = 26 \text{ years}$$

$$(\text{Rakesh} + \text{Mohan} + \text{Ramesh}) = \frac{80}{2} = 40 \text{ years.}$$

$$\text{age of Mohan} = 40 - 26 = 14 \text{ years.}$$

19. (a); Let the second number = x

$$\frac{x}{2} + x + 2x = 84 \Rightarrow \frac{x + 2x + 4x}{2} = 84$$



$$7x = 84 \times 2 \Rightarrow x = \frac{84 \times 2}{7} \Rightarrow x = 24$$

$$\text{Third number} = 24 \times 2 = 48$$

20. (a); Total temp of Mon + Tues + Wed = 111°C
 Tues + Wed + Thurs = $34 \times 3 = 102^\circ\text{C}$
 Mon - Thurs = 9°C

$$M - \frac{4}{5}M = 9^\circ\text{C} \Rightarrow \frac{M}{5} = 9^\circ\text{C} \Rightarrow M = 45^\circ\text{C}$$

$$\text{Temp on Thursday} = 45 \times \frac{4}{5} = 36^\circ\text{C}$$

21. (a); let the number be $(a-5), (a-3), (a-1), (a+1), (a+3), (a+5)$
 Then the average of all six consecutive odd numbers

$$= \frac{(a-5) + (a-3) + (a-1) + (a+1) + (a+3) + (a+5)}{6} = a$$

According to question,

$$\frac{(a-1)^2 + (a+1)^2 + (a+3)^2 + (a+5)^2}{4} - \frac{(a-5)^2 + (a-3)^2 + (a-1)^2 + (a+1)^2}{4} = 64$$

$$a = 8$$

22. (a); Let the number of candidates who passed = x
 According to question
 $55 \times x + 25(150 - x) = 150 \times 50$

$$55x - 25x = 7500 - 3750 = \frac{3750}{30} \Rightarrow x = 125$$

Hence no of candidate who passed the exam = 125

23. (b); Total age of 24 boys and teacher = $(24 + 1) \times 15 = 375$ years

Total age of all boys excluding teacher = $24 \times (15 - 1) = 336$ years.

age of teacher = $375 - 336 = 39$ years

Shortcut:

Age of teacher = $15 + 24 \times 1 = 39$ years

24. (a); Total age of 8 members = $8 \times 40 = 320$ years.
 Total age after replacement of 1 member = $320 - 55 + 39 = 304$ years.

$$\text{New average} = \frac{304}{8} = 38 \text{ years}$$

Hence average decreased by 2 years.

Shortcut:

Difference in ages = $55 - 39 = 16$ years its effect

$$= \frac{16}{8} = 2$$

25. (c); Sum of the age of 2 new players

$$= 18 + 20 + 11 \times \frac{2}{12}$$

$$= 38 + \frac{22}{12} = \frac{478}{12} \text{ years}$$

average age of 2 new players

$$= \frac{478}{12 \times 2} = \frac{478}{24} = 19 \frac{22}{24}$$

= 19 years 11 months.

26. (a); Let the number of students = x

According to the question

$$x \times 6 + 12 \times 40 = (x + 12) \times 7$$

$$6x + 480 = 7x + 84 \Rightarrow x = 396$$

27. (a); Let the average of 11 innings = x

Total run of 11 innings = $11x$

After 12 innings

$$11x + 90 = (x - 5) \times 12$$

$$12x - 11x = 90 + 60 \Rightarrow x = 150$$

Average after 12th innings = $150 - 5 = 145$

Shortcut:

$$\text{Average after 12 innings} = (90 + 12 \times 5) - 5 = 145$$

28. (a); Let the no of wicket taken by the cricketer = x

According to the question

$$\frac{12.4 \times x + 26}{x + 5} = 12 \Rightarrow 12.4x + 26 = 12x + 60$$

$$x = \frac{34}{.4} = \frac{340}{4} = 85$$

29. (c); Let his score in 26th inning = x

According to the question

$$25 \times 56 + x = 26(56 + 2)$$

$$x = 1308 - 1400 \Rightarrow x = 108$$

Shortcut:

$$\text{Score in the 26th innings} = 56 + 2 - 26 = 108$$

30. (a); Let the age of a class teacher = x

According to question

$$30 \times 13.5 + x = 14 \times 31 \Rightarrow x = 434 - 405 = 29 \text{ years}$$

Shortcut:

$$\text{Age of the teacher} = 14 + 0.5 \times 30 = 29 \text{ years}$$

31. (a); Let the marks of New student = x

$$x = 90 - 20 \times 4 \Rightarrow x = 80$$

Marks of New student = 10



32. (a); Sum of Age of x and y = 40 years
y and z = 38 years, z and x = 42 years

$$x + y + z = \frac{40 + 38 + 42}{2} = \frac{120}{2} = 60$$

$$x = 60 - 38 = 22 \text{ years, } y = 60 - 42 = 18 \text{ years}$$

$$z = 60 - 40 = 20 \text{ years}$$

33. (a); Total age of a family of 6 members = 22×6
= 132 years
Total age of the family at birth of youngest member
= $132 - 7 \times 6 = 132 - 42 = 90$ years.

$$\text{Average age} = \frac{90}{5} = 18 \text{ years.}$$

34. (b); Age of a new man = $25 + 10 \times 2 = 45$ years.

35. (a); Total correct marks obtained by students
= $100 \times 60 - 75 + 65 = 5990$

$$\text{mean marks of 100 students} = \frac{5990}{100} = 59.9$$

Shortcut:

The actual marks are 10 less then the previous marks.

$$\text{So, correct mean} = 60 - \left(\frac{10}{100}\right) = 59.9$$

36. (c); Let the consecutives even numebr
= x, x + 2, x + 4, x + 6
 $\therefore x + x + 2 + x + 4 + x + 6 = 260$

$$4x = 248 \Rightarrow x = 62$$

$$A \times D = 62 \times 68 = 4216$$

37. (c); Total correct weight of 36 students
= $50 \times 36 - 73 + 3 = 1800 - 36 = 1764$ kg.

$$\text{Correct average} = \frac{1764}{36} = 49 \text{ kg.}$$

Shortcut:

$$\text{Correct average} = 50 - \left(\frac{73 - 37}{36}\right) = 49 \text{ kg}$$

38. (c); Sachin score in 26th innings.
= $26 \times (46 + 2) - 25 \times 46 = 1248 - 1150 = 98$

Shortcut:

$$\text{Sachin's score in 26th innings} = 46 + 2 \times 26 = 98$$

39. (a); total present age of 5 members = $17 \times 5 + 3 \times 5$
= 100

$$\text{total present age including new baby} = 17 \times 6 = 102$$

$$\text{Age of new baby} = 102 - 100 = 2 \text{ years.}$$

40. (b); Total sum of all the 5 subjects = $75 \times 4 + 80$
= 380

$$\text{Average} = \frac{380}{5} = 76$$

Shortcut:

$$\text{New average} = 75 + \left(\frac{80 - 75}{5}\right) = 76 \text{ marks}$$



CHASE
ACADEMY

