EduSahara™ Assignment

Name : Unitary Method Problems

Chapter : Unitary Method

Grade : ICSE Grade VIII

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1. If 8 cookies cost ₹72, how much will 35 cookies cost?

   (i) ₹321 (ii) ₹341 (iii) ₹315 (iv) ₹293 (v) ₹312

2. If 7 books cost ₹35, how many books can be purchased with ₹130?

   (i) 25 (ii) 24 (iii) 29 (iv) 27 (v) 26

3. If 6 l of cooking oil costs ₹108, how much will 30 l cost?

   (i) ₹553 (ii) ₹540 (iii) ₹536 (iv) ₹525 (v) ₹542

4. If 15 l of groundnut oil costs ₹255, how much of groundnut oil costs ₹646?

   (i) 35 l (ii) 38 l (iii) 41 l (iv) 33 l (v) 43 l

5. If 15 men can make 45 candles in a day, how many candles are made by 21 men in a day?

   (i) 64 (ii) 62 (iii) 60 (iv) 66 (v) 63

6. If 19 men can make 76 toy cars in a day, how many men are needed to make 76 toy cars in a day?

   (i) 16 (ii) 22 (iii) 20 (iv) 19 (v) 18

7. If Arjun can read 208 pages in 16 hr, how many pages can he read in 14 hr?

   (i) 181 (ii) 185 (iii) 180 (iv) 183 (v) 182

8. If Raju can read 198 pages in 11 hr, he can read 180 pages in how many hours?

   (i) 5 hr (ii) 15 hr (iii) 10 hr (iv) 13 hr (v) 7 hr

9. If Charan can read 48 pages in a 288 pages book in 2 hr, how much more time will it take to complete the book?

   (i) 10 hr (ii) 5 hr (iii) 13 hr (iv) 15 hr (v) 7 hr

10. If Satish can make 119 donuts in 7 min, in how much time can he complete an order of 816 donuts ?

    (i) 48 min (ii) 51 min (iii) 43 min (iv) 45 min (v) 53 min

11. If 108 men can do a piece of work in 80 days, how many men can do the same work in 72 days?

    (i) 120 (ii) 121 (iii) 122 (iv) 117 (v) 119

12. If 45 men can do a piece of work in 156 days, 108 men can do the same work in how many days?

    (i) 60 days (ii) 68 days (iii) 62 days (iv) 70 days (v) 65 days

13. If 17 men can build $\frac{1}{10}$ of a wall in 27 days, in how much more time is the wall completely built ?

    (i) 229 days (ii) 256 days (iii) 243 days (iv) 221 days (v) 250 days

14. A vehicle can cover certain distance in 35 min, running at a speed of 130 kmph. At what speed must the vehicle run to cover the same distance in 65 min?

(i) 70 kmph (ii) 65 kmph (iii) 73 kmph (iv) 67 kmph (v) 75 kmph

15. A vehicle can cover certain distance in 90 min, running at a speed of 210 kmph. In how many minutes, the vehicle covers the same distance running at a speed of 150 kmph?

(i) 153 min (ii) 102 min (iii) 126 min (iv) 141 min (v) 118 min

16. A person has to travel from one town to another town which is at a distance of 520 km. He covers 280 km in 14 hr. In how much more time will he reach his destination?

(i) 7 hr (ii) 15 hr (iii) 9 hr (iv) 12 hr (v) 17 hr

17. The cost of 19 kg of cabbages is ₹399. How many kgs of cabbages can be purchased with ₹483 ?

(i) 23 kg (ii) 18 kg (iii) 28 kg (iv) 26 kg (v) 20 kg

18. The cost of 22 kg of brinjals is ₹462. How much has to be paid to purchase 11 kg of brinjals ?

(i) ₹207 (ii) ₹231 (iii) ₹247 (iv) ₹249 (v) ₹214

19. The weight of 15 rounds of copper wire is 390 kg. How many rounds of copper wire is present in 650 kg?

(i) 26 (ii) 27 (iii) 25 (iv) 23 (v) 24

20. 48 men can dig a canal in 117 days working for 14 hr per day. How many men are required to complete the work in 112 days working for 13 hr per day?

(i) 55 (ii) 57 (iii) 54 (iv) 53 (v) 51

21. 19 men can dig a trench in 13 days. But after working for 5 days, 15 men left. How many more days are required to complete the work?

(i) 41 days (ii) 37 days (iii) 35 days (iv) 38 days (v) 39 days

22. In a hostel mess there are provisions enough for 12 students for 14 days. If 8 more students join the hostel, how long will the provisions last ?

(i) 8.40 days (ii) 7.40 days (iii) 6.40 days (iv) 9.40 days (v) 10.40 days

23. In a hostel mess, there are provisions enough for 19 students for 11 days. After 9 days, 15 students left. How many more days will the provisions last ?

(i) 10.50 days (ii) 7.50 days (iii) 9.50 days (iv) 8.50 days (v) 11.50 days

24. A bus ticket fare for 12 km costs ₹92. How much is the fare for 11 km?

(i) ₹87.33 (ii) ₹81.33 (iii) ₹89.33 (iv) ₹79.33 (v) ₹84.33

25. The cost of 13 pens is ₹130 and 15 pencils is ₹105. With an amount of ₹288, 14 pencils are purchased. How many pens can be purchased with the remaining amount ?

(i) 18 (ii) 20 (iii) 16 (iv) 19 (v) 21

26. The cost of 20 pens is ₹280 and 18 pencils is ₹90. With an amount of ₹308, 17 pens are purchased. How many pencils can be purchased with the remaining amount ?

(i) 14 (ii) 11 (iii) 17 (iv) 15 (v) 13

27. The sales tax for ₹100 of a bill is ₹15. How much sales tax has to be paid for a bill of ₹301 ?

(i) ₹45.15 (ii) ₹50.15 (iii) ₹40.15 (iv) ₹48.15 (v) ₹42.15

28. A group of pilgrims have to cover 18 km to reach a shrine. They walk 10 km in 15 hr. At what speed they have to walk to cover the remaining distance in 5 hr ?

(i) 0.60 kmph (ii) 1.60 kmph (iii) 3.60 kmph (iv) 9.60 kmph (v) 2.60 kmph

29. To stitch a shirt, 107 cm of cloth is needed. How much cloth is needed to stitch 7 shirts ?

(i) 749 cm (ii) 727 cm (iii) 775 cm (iv) 732 cm (v) 762 cm

30. 14 m of cloth is required to stitch 9 dresses. How many meters of cloth is required to stitch 23 dresses?

(i) 32.78 m (ii) 38.78 m (iii) 35.78 m (iv) 30.78 m (v) 40.78 m

31. The cost of 8 dozen bananas is ₹288. What is the cost of 16 dozens ?

(i) ₹568 (ii) ₹550 (iii) ₹579 (iv) ₹576 (v) ₹599

32. 19 mangoes weigh 9 kg. If 9 mangoes are needed, how many kgs have to be purchased?

(i) 3.26 kg (ii) 4.26 kg (iii) 2.26 kg (iv) 6.26 kg (v) 5.26 kg

33. 56 men or 42 women can earn ₹3360 per day. How much is earned by 19 men and 15 women in a day?

(i) ₹2560 (ii) ₹2390 (iii) ₹2340 (iv) ₹2200 (v) ₹2210

34. The total wage of 11 labourers for 18 days is ₹69300. What will be the total wage of 8 labourers for 5 days ?

(i) ₹12500 (ii) ₹11200 (iii) ₹16200 (iv) ₹14000 (v) ₹15700

35. 18 artisans can make 60 idols in 70 days. How many artisans are required to make 10 idols in 14 days ?

(i) 13 (ii) 17 (iii) 14 (iv) 15 (v) 16

36. 63 workers working for 3 hr per day can dig a pit in 80 days. How many days are needed for 70 workers working 8 hr per day to dig the same pit?

(i) 27 days (ii) 32 days (iii) 22 days (iv) 24 days (v) 30 days

37. 7 cows eat 2261 kg of grass in 19 days. How much of grass has to be procured to feed 17 cows for 6 days ?

(i) 1594 kg (ii) 1484 kg (iii) 1734 kg (iv) 2014 kg (v) 1854 kg

38. Cost of 8 toys of TypeA is ₹72 and 16 toys of TypeB is ₹208. Out of a sum of ₹323, 17 toys of TypeA are purchased. If 18 toys of TypeB have to be purchased, how much extra amount is needed?

(i) ₹64 (ii) ₹69 (iii) ₹67 (iv) ₹59 (v) ₹61

39. 14 men can make 588 baskets in 7 days. 15 women can make 630 baskets in 7 days. How many baskets are made by 5 men and 7 women in 9 days ?

(i) 651 (ii) 649 (iii) 645 (iv) 648 (v) 647

40. To irrigate 20 acres of a field, 80000 l of water is needed. If 10 more acres are brought under cultivation, how many lts of water is needed?

(i) 126000.00 l (ii) 107000.00 l (iii) 120000.00 l (iv) 95000.00 l (v) 132000.00 l

41. 10 labourers can cultivate a field in 24 days working 8 hr per day. How many more labourers are needed to cultivate double the field in 16 days working 6 hr per day ?

(i) 30 (ii) 27 (iii) 29 (iv) 31 (v) 33

42. 16 workers working 13 hr per day are paid ₹83200 for 20 days. How much has to be paid to 10 workers working 10 hr per day for 16 days ?

(i) ₹34300 (ii) ₹31400 (iii) ₹30600 (iv) ₹32000 (v) ₹33800

43. The air ticket charges for 34 persons for a flight is ₹281112, inclusive of ₹368 as airport tax per person. How much has to be paid if 10 persons drop out of the trip ?

(i) ₹185432 (ii) ₹212432 (iii) ₹206432 (iv) ₹198432 (v) ₹192432

44. The specification on a printer says that it prints 700 pages in 10 min. If 5250 pages have to be printed, how long will it take ?

(i) 80 min (ii) 78 min (iii) 72 min (iv) 70 min (v) 75 min

45. 15 gm of gold costs ₹31500. What is the cost of 40 gm ?

(i) ₹86300 (ii) ₹85500 (iii) ₹82600 (iv) ₹82300 (v) ₹84000

46. A banker gave foreign exchange of $18 for ₹972. How many dollars will the customer get for ₹1404 ?

(i) $21 (ii) $26 (iii) $31 (iv) $23 (v) $29

47. 18 workers take 17 days to build a room. After working for 10 days, 11 workers left. In how many more days is the room built ?

(i) 18.00 days (ii) 21.00 days (iii) 13.00 days (iv) 15.00 days (v) 23.00 days

48. A can do $\frac{1}{8}$ of a particular work in 15 days.

B can do $\frac{1}{12}$ of the same work in 4 days.

C can do $\frac{1}{9}$ of the same work in 10 days.

If A, B and C work together, in how many days is the work completed ?

(i) $24\frac{26}{29}$ days (ii) $24\frac{24}{29}$ days (iii) $26\frac{2}{3}$ days (iv) $24\frac{22}{29}$ days (v) $23\frac{7}{31}$ days

49. A journey consists of three legs. First 60 km are travelled at a speed of 120 kmph. Next 24 km are travelled at a speed of 80 kmph. Last 24 km are travelled at a speed of 60 kmph. Find the total time taken to complete the journey.

(i) $1\frac{2}{5}$ hr (ii) $1\frac{1}{5}$ hr (iii) 1 hr (iv) $1\frac{1}{2}$ hr

50. In an eating contest, the eating capacities of A, B and C are 5 gm/sec, 12 gm/sec and 6 gm/sec respectively. If the amount of food to be eaten is 20.7 kg, in how much time is it consumed if all three participants start eating together ?

(i) 16 min (ii) 14 min (iii) 17 min (iv) 13 min (v) 15 min

51. In a certain exam, for every correct answer, 9 marks are added. For every wrong answer 4 marks are subtracted. A student attempted 51 questions and secured 199 marks. How many answers are correct and how many are wrong?

(i) 31 correct and 20 wrong (ii) 29 correct and 22 wrong (iii) 32 correct and 19 wrong

(iv) 33 correct and 18 wrong (v) 30 correct and 21 wrong

52. A production line consists of three stages to be completed serially.
Stage1 work can be done by 10 workers in 8 days.
Stage2 work can be done by 14 workers in 13 days.
Stage3 work can be done by 6 workers in 15 days.
If 5, 10 and 7 workers are hired to do Stage1, Stage2 and Stage3 works respectively, in how many days is the work completed ?

(i) $47\frac{4}{35}$ days (ii) 47 days (iii) $47\frac{2}{35}$ days (iv) $47\frac{2}{33}$ days (v) $47\frac{2}{37}$ days

53. The slab rates of a city's water department are as follows

Low Val (kl)	-	High Val (kl)	Rate Rs/kl
0	-	40	12
40	-	60	17
60	-	80	22
80	-	remaining	27

How much amount has to be paid if the consumption is 33 kl.

(i) ₹396 (ii) ₹408 (iii) ₹373 (iv) ₹393

54. The slab rates of a city's water department are as follows

Low Val (kl)	-	High Val (kl)	Rate Rs/kl
0	-	30	20
30	-	40	25
40	-	70	30
70	-	remaining	35

How much amount has to be paid if the consumption is 37 kl.

(i) ₹775 (ii) ₹752 (iii) ₹779 (iv) ₹763 (v) ₹787

55. The slab rates of a city's water department are as follows

Low Val (kl)	-	High Val (kl)	Rate Rs/kl
0	-	60	14
60	-	70	19
70	-	80	24
80	-	remaining	29

How much amount has to be paid if the consumption is 75 kl.

(i) ₹1400 (ii) ₹1110 (iii) ₹1150 (iv) ₹980 (v) ₹1170

56. The slab rates of a city's water department are as follows

Low Val (kl)	-	High Val (kl)	Rate Rs/kl
0	-	20	10
20	-	60	15
60	-	90	20
90	-	remaining	25

How much amount has to be paid if the consumption is 90 kl.

(i) ₹1560 (ii) ₹1400 (iii) ₹1430 (iv) ₹1350 (v) ₹1180

Assignment Key

1) (iii)	2) (v)	3) (ii)	4) (ii)	5) (v)	6) (iv)
7) (v)	8) (iii)	9) (i)	10) (i)	11) (i)	12) (v)
13) (iii)	14) (i)	15) (iii)	16) (iv)	17) (i)	18) (ii)
19) (iii)	20) (iii)	21) (iv)	22) (i)	23) (iii)	24) (v)
25) (iv)	26) (i)	27) (i)	28) (ii)	29) (i)	30) (iii)
31) (iv)	32) (ii)	33) (iii)	34) (iv)	35) (iv)	36) (i)
37) (iii)	38) (i)	39) (iv)	40) (iii)	41) (i)	42) (iv)
43) (iv)	44) (v)	45) (v)	46) (ii)	47) (i)	48) (ii)
49) (ii)	50) (v)	51) (i)	52) (iii)	53) (i)	54) (i)
55) (iii)	56) (ii)				

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