

EduSahara™ Learning Center Assignment

Grade : Class VII, ICSE
Chapter : Unitary Method
Name : Unitary Method Problems
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1. If 8 books cost ₹64, how much will 30 books cost?

(i) ₹242 (ii) ₹226 (iii) ₹240 (iv) ₹227 (v) ₹266

2. If 8 vadas cost ₹48, how many vadas can be purchased with ₹222?

(i) 36 (ii) 40 (iii) 37 (iv) 34 (v) 38

3. If 11 lt of puja oil costs ₹165, how much will 38 lt cost?

(i) ₹588 (ii) ₹548 (iii) ₹570 (iv) ₹563 (v) ₹595

4. If 7 lt of mustard oil costs ₹133, how much of mustard oil costs ₹703?

(i) 32 lt (ii) 40 lt (iii) 37 lt (iv) 34 lt (v) 42 lt

5. If 18 men can make 36 candles in a day, how many candles are made by 22 men in a day?

(i) 47 (ii) 43 (iii) 44 (iv) 41 (v) 45

6. If 13 men can make 78 chairs in a day, how many men are needed to make 108 chairs in a day?

(i) 15 (ii) 17 (iii) 19 (iv) 18 (v) 21

7. If Venkat can read 285 pages in 19 hrs, how many pages can he read in 20 hrs?

(i) 301 (ii) 299 (iii) 300 (iv) 302 (v) 298

8. If Kumar can read 190 pages in 19 hrs, he can read 100 pages in how many hours?

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

9. If Sharan can read 125 pages in a 350 pages book in 5 hrs, how much more time will it take to complete the book?

(i) 7 hrs (ii) 11 hrs (iii) 9 hrs (iv) 10 hrs (v) 8 hrs

10. If Bali can make 160 sandwiches in 10 min., in how much time can he complete an order of 784 sandwiches ?

(i) 54 min. (ii) 49 min. (iii) 46 min. (iv) 52 min. (v) 44 min.

11. If 90 men can do a piece of work in 195 days, how many men can do the same work in 150 days?
(i) 119 (ii) 117 (iii) 114 (iv) 116 (v) 118
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12. If 55 men can do a piece of work in 210 days, 165 men can do the same work in how many days?
(i) 65 days (ii) 70 days (iii) 73 days (iv) 75 days (v) 67 days
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13. If 19 men can build $\frac{1}{10}$ of a wall in 39 days ,
in how much more time is the wall completely built ?
(i) 328 days (ii) 351 days (iii) 346 days (iv) 368 days (v) 377 days
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14. A vehicle can cover certain distance in 150 min., running at a speed of 77 kmph. At what speed must the vehicle run to cover the same distance in 110 min.?
(i) 121 kmph (ii) 120 kmph (iii) 105 kmph (iv) 93 kmph (v) 98 kmph
-
15. A vehicle can cover certain distance in 182 min., running at a speed of 132 kmph. In how many minutes, the vehicle covers the same distance running at a speed of 154 kmph?
(i) 173 min. (ii) 156 min. (iii) 140 min. (iv) 161 min. (v) 144 min.
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16. A person has to travel from one town to another town which is at a distance of 1120 km. He covers 600 km in 15 hrs. In how much more time will he reach his destination?
(i) 10 hrs (ii) 13 hrs (iii) 8 hrs (iv) 18 hrs (v) 16 hrs
-
17. The cost of 23 kg of cauliflowers is ₹529. How many kgs of cauliflowers can be purchased with ₹460 ?
(i) 25 kg (ii) 23 kg (iii) 20 kg (iv) 15 kg (v) 17 kg
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18. The cost of 13 kg of pumpkins is ₹325. How much has to be paid to purchase 15 kg of pumpkins ?
(i) ₹391 (ii) ₹358 (iii) ₹375 (iv) ₹383 (v) ₹373
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19. The weight of 16 rounds of copper wire is 384 kg. How many rounds of copper wire is present in 600 kg?
(i) 24 (ii) 22 (iii) 27 (iv) 26 (v) 25
-
20. 48 men can dig a canal in 42 days working of 5 hrs per day. How many men are required to complete the work in 60 days working of 6 hrs per day?
(i) 26 (ii) 28 (iii) 27 (iv) 29 (v) 31
-
21. 15 men can dig a trench in 16 days. But after working for 8 days, 13 men left. How many

more days are required to complete the work?

- (i) 58 days (ii) 60 days (iii) 61 days (iv) 62 days (v) 59 days
-

22. In a hostel mess there are provisions enough for 19 students for 18 days. If 7 more students join the hostel, how long will the provisions last ?

- (i) 18.15 days (ii) 10.15 days (iii) 16.15 days (iv) 8.15 days (v) 13.15 days
-

23. In a hostel mess, there are provisions enough for 15 students for 19 days. After 14 days, 8 students left. How many more days will the provisions last ?

- (i) 7.71 days (ii) 10.71 days (iii) 13.71 days (iv) 5.71 days (v) 15.71 days
-

24. A bus ticket fare for 16 km costs ₹64. How much is the fare for 12 km?

- (i) ₹45.00 (ii) ₹43.00 (iii) ₹51.00 (iv) ₹48.00 (v) ₹53.00
-

25. The cost of 10 pens is ₹100 and 19 pencils is ₹95. With an amount of ₹215, 13 pencils are purchased. How many pens can be purchased with the remaining amount ?

- (i) 15 (ii) 14 (iii) 16 (iv) 18 (v) 12
-

26. The cost of 15 pens is ₹255 and 11 pencils is ₹66. With an amount of ₹401, 19 pens are purchased. How many pencils can be purchased with the remaining amount ?

- (i) 14 (ii) 12 (iii) 11 (iv) 13 (v) 16
-

27. The sales tax for ₹100 of a bill is ₹13. How much sales tax has to be paid for a bill of ₹498 ?

- (i) ₹67.74 (ii) ₹61.74 (iii) ₹69.74 (iv) ₹64.74 (v) ₹59.74
-

28. A group of pilgrims have to cover 17 km to reach a shrine. They walk 11 km in 12 hrs. At what speed they have to walk to cover the remaining distance in 7 hrs ?

- (i) 0.86 kmph (ii) 2.86 kmph (iii) 7.86 kmph (iv) 1.86 kmph (v) 8.86 kmph
-

29. To stitch a shirt, 193 cm of cloth is needed. How much cloth is needed to stitch 7 shirts ?

- (i) 1431 cm (ii) 1211 cm (iii) 1351 cm (iv) 1621 cm (v) 1291 cm
-

30. 11 mt of cloth is required to stitch 8 dresses. How many meters of cloth is required to stitch 22 dresses?

- (i) 33.25 mt (ii) 35.25 mt (iii) 25.25 mt (iv) 30.25 mt (v) 27.25 mt
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31. The cost of 6 dozen bananas is ₹216. What is the cost of 19 dozens ?

- (i) ₹684 (ii) ₹697 (iii) ₹688 (iv) ₹659 (v) ₹682
-

32. 19 mangoes weigh 5 kg. If 8 mangoes are needed, how many kgs have to be purchased?

- (i) 4.11 kg (ii) 0.11 kg (iii) 2.11 kg (iv) 1.11 kg (v) 3.11 kg
-

33. 27 men or 24 women can earn ₹2160 per day. How much is earned by 20 men and 14 women in a day?

- (i) ₹3140 (ii) ₹2860 (iii) ₹2620 (iv) ₹2890 (v) ₹2820
-

34. The total wage of 6 laboures for 10 days is ₹30000. What will be the total wage of 7 laboures for 8 days ?

- (i) ₹28400 (ii) ₹26800 (iii) ₹28000 (iv) ₹26700 (v) ₹29200
-

35. 12 artisans can make 14 idols in 35 days. How many artisans are required to make 27 idols in 45 days ?

- (i) 18 (ii) 19 (iii) 17 (iv) 16 (v) 20
-

36. 36 workers working for 2 hrs per day can dig a pit in 48 days. How many days are needed for 32 workers working 6 hrs per day to dig the same pit?

- (i) 15 days (ii) 18 days (iii) 13 days (iv) 21 days (v) 23 days
-

37. 13 cows eat 4940 kg of grass in 20 days. How much of grass has to be procured to feed 5 cows for 16 days ?

- (i) 1400 kg (ii) 1550 kg (iii) 1290 kg (iv) 1520 kg (v) 1780 kg
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38. Cost of 6 toys of TypeA is ₹36 and 8 toys of TypeB is ₹120. Out of a sum of ₹250, 17 toys of TypeA are purchased. If 11 toys of TypeB have to be purchased, how much extra amount is needed?

- (i) ₹14 (ii) ₹22 (iii) ₹17 (iv) ₹20 (v) ₹12
-

39. 3 men can make 192 baskets in 8 days. 4 women can make 240 baskets in 10 days. How many baskets are made by 10 men and 5 women in 8 days ?

- (i) 878 (ii) 882 (iii) 881 (iv) 879 (v) 880
-

40. To irrigate 12 acres of a field, 90000 lt of water is needed. If 9 more acres are brought under cultivation, how many lts of water is needed?

- (i) 143500.00 lt (ii) 157500.00 lt (iii) 171500.00 lt (iv) 180500.00 lt (v) 154500.00 lt
-

41. 20 labourers can cultivate a field in 60 days working 3 hrs per day. How many more labourers are needed to cultivate double the field in 15 days working 10 hrs per day ?

- (i) 28 (ii) 31 (iii) 26 (iv) 29 (v) 27
-

42. 10 worker working 15 hrs per day are paid ₹156000 for 13 days. How much has to be paid

to 10 workers working 6 hrs per day for 19 days ?

- (i) ₹91200 (ii) ₹92800 (iii) ₹92700 (iv) ₹89900 (v) ₹90000
-

43. The air ticket charges for 35 persons for a flight is ₹173985, inclusive of ₹171 as airport tax per person. How much has to be paid if 14 persons drop out of the trip ?

- (i) ₹77391 (ii) ₹128391 (iii) ₹104391 (iv) ₹112391 (v) ₹97391
-

44. The specification on a printer says that it prints 400 pages in 5 min.. If 7200 pages have to be printed, how long will it take ?

- (i) 90 min. (ii) 93 min. (iii) 95 min. (iv) 87 min. (v) 85 min.
-

45. 10 gm of gold costs ₹24000. What is the cost of 25 gm ?

- (i) ₹58600 (ii) ₹59300 (iii) ₹61400 (iv) ₹62700 (v) ₹60000
-

46. A banker gave foreign exchange of \$ 19 for ₹1026. How many dollars will the customer get for ₹1890 ?

- (i) \$ 40 (ii) \$ 35 (iii) \$ 38 (iv) \$ 32 (v) \$ 30
-

47. 17 workers take 10 days to build a room. After working for 5 days, 7 workers left. In how many more days is the room built ?

- (i) 6.50 days (ii) 8.50 days (iii) 9.50 days (iv) 10.50 days (v) 7.50 days
-

A can do $\frac{1}{3}$ of a particular work in 4 days .

48. B can do $\frac{1}{6}$ of the same work in 12 days .

C can do $\frac{1}{11}$ of the same work in 2 days .

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

- (i) $7\frac{3}{113}$ days (ii) $6\frac{112}{113}$ days (iii) $6\frac{102}{115}$ days (iv) $7\frac{5}{37}$ days (v) $7\frac{1}{113}$ days
-

49. A journey consists of three legs. First 42 km are travelled at a speed of 30 kmph. Next 22 km are travelled at a speed of 20 kmph. Last 108 km are travelled at a speed of 120 kmph. Find the total time taken to complete the journey.

- (i) $3\frac{2}{5}$ hrs (ii) $3\frac{3}{5}$ hrs (iii) $4\frac{1}{4}$ hrs (iv) $2\frac{5}{6}$ hrs (v) $3\frac{1}{5}$ hrs
-

50. In an eating contest, the eating capacities of A, B and C are 11 gm/sec, 12 gm/sec and 8 gm/sec respectively. If the amount of food to be eaten is 9.3 kg, in how much time is it consumed if all three participants start eating together ?

- (i) 6 min. (ii) 4 min. (iii) 8 min. (iv) 2 min. (v) 5 min.
-

51. In a certain exam, for every correct answer, 9 marks are added. For every wrong answer 8

marks are subtracted. A student attempted 59 questions and secured 378 marks. How many answers are correct and how many are wrong?

- (i) 52 correct and 7 wrong (ii) 48 correct and 11 wrong (iii) 51 correct and 8 wrong (iv) 50 correct and 9 wrong (v) 49 correct and 10 wrong

A production line consists of three stages to be completed serially.

Stage1 work can be done by 14 workers in 8 days .

Stage2 work can be done by 7 workers in 13 days .

52. Stage3 work can be done by 15 workers in 11 days .

If 9, 13 and 8 workers are hired to do Stage1, Stage2 and Stage3 works respectively, in how many days is the work completed ?

- (i) $40\frac{5}{74}$ days (ii) $40\frac{5}{72}$ days (iii) $40\frac{1}{24}$ days (iv) $40\frac{1}{14}$ days (v) $40\frac{7}{72}$ days

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

Low Val (kl)	-	High Val (kl)	Rate Rs/kl
0	-	30	12
30	-	50	17
50	-	80	22
80	-	remaining	27

How much amount has to be paid if the consumption is 13 kl

- (i) ₹156 (ii) ₹144 (iii) ₹172 (iv) ₹173 (v) ₹128

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	-	30	15
30	-	90	20
90	-	remaining	25

How much amount has to be paid if the consumption is 26 kl

- (i) ₹278 (ii) ₹306 (iii) ₹317 (iv) ₹262 (v) ₹290

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

Low Val (kl)	-	High Val (kl)	Rate Rs/kl
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0	-	30	18
30	-	50	23
50	-	60	28
60	-	remaining	33

How much amount has to be paid if the consumption is 60 kl

(i) ₹1280 (ii) ₹1320 (iii) ₹1230 (iv) ₹1040 (v) ₹1460

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

Low Val (kl)	-	High Val (kl)	Rate Rs/kl
0	-	40	13
40	-	50	18
50	-	90	23
90	-	remaining	28

56.

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

(i) ₹1340 (ii) ₹1790 (iii) ₹1620 (iv) ₹1680 (v) ₹1590

Assignment Key

- 1) (iii)
- 2) (iii)
- 3) (iii)
- 4) (iii)
- 5) (iii)
- 6) (iv)
- 7) (iii)
- 8) (v)
- 9) (iii)
- 10) (ii)
- 11) (ii)
- 12) (ii)
- 13) (ii)
- 14) (iii)
- 15) (ii)
- 16) (ii)
- 17) (iii)
- 18) (iii)
- 19) (v)
- 20) (ii)
- 21) (ii)
- 22) (v)
- 23) (ii)
- 24) (iv)
- 25) (i)
- 26) (iv)
- 27) (iv)
- 28) (i)
- 29) (iii)
- 30) (iv)
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- 33) (ii)
- 34) (iii)
- 35) (i)
- 36) (ii)
- 37) (iv)
- 38) (iii)
- 39) (v)

- 40) (ii)
- 41) (i)
- 42) (i)
- 43) (iii)
- 44) (i)
- 45) (v)
- 46) (ii)
- 47) (ii)
- 48) (v)
- 49) (i)
- 50) (v)
- 51) (iv)
- 52) (ii)
- 53) (i)
- 54) (v)
- 55) (i)
- 56) (iii)