Unitary Method Exercise 9A

01

Answer:

Cost of 15 oranges = Rs 110

Cost of 1 orange = Rs $\frac{110}{15}$ \therefore Cost of 39 oranges = Rs $\frac{110}{15} \times 39$ = Rs 286 Q2

Answer:

Amount of sugar bought for Rs 260 = 8 kg Amount of sugar bought for Re 1 = $\frac{8}{260}$ kg Now, amount of sugar bought for Rs 877.50 = $\frac{8}{260}$ × 877.50 kg = 27 kg

 \uplambda 27 kg of sugar can be bought for Rs 877.50.

Q3

Answer:

Length of the silk purchased for Rs 6290 = 37 m Length of the silk purchased for Re 1= $\frac{37}{6290}$ m Now, length of the silk purchased for Rs 4,420 = $\frac{37}{6290}$ × 4420 m = 26 m : 26 m of silk can be purchased for Rs 4,420

Q4

Answer:

Number of days for which a worker is paid Rs 1,110 = 6 Number of days for which a worker is paid Re 1 = $\frac{0}{1110}$ days Now, number of days for which a worker is paid Rs 4625= $\frac{6}{1110} imes 4625$ days = 25 days :. The worker worked 25 days in a month

Q5

Answer:

Distance covered by the car with 42 L of petrol = 357 km Distance covered by the car with 1 L of petrol = $\frac{357}{42}$ km [less petrol, less distance] Now, distance covered by the car with 12 L of petrol = $\frac{357}{42} \times 12 = 102$ km [more petrol, more distance]

Q6

Answer:

Cost of travelling 900 km by train = Rs 2520

Cost of travelling 1 km by train = Rs $\frac{2520}{900}$ Now, cost of travelling 360 km by train =Rs $\frac{2520}{900}\times360$ = Rs 1008 : The train fare for a journey of distance 360 km is Rs 1,008.

Q7

Answer:

Time taken to cover a distance of 51 km = 45 min

Time taken to cover a distance of 1 km = $\frac{45}{51}$ min

Time taken to cover distance of 221 km = $\frac{45}{51}$ × 221 min = 195 min = 3 h 15 min

.. The train will take 3 h 15 min to cover a distance of 221 km.

Q8

Answer:

Million Sain & Practice Length of the iron rod that weighs 85.5 kg = 22.5 mLength of the iron rod that weighs 1 kg = $\frac{22.5}{85.5}$ m [less weighth: Length of the iron rod that weighs 22.8 kg = $\frac{22.5}{85.5}$ × 22.8 m = 6 m [less weight, less length]

Remove Watermark



Q9

Answer:

Number of paper sheets that weighs 162 g = 6Number of paper sheets that weighs 1 g = $\frac{6}{162}$ [less weight, less sheets] \therefore Number of paper sheets that weighs 13.5 kg = $\frac{6}{162} \times 13.5 \times 1000$ = 500 [more weight, more

Q10

Answer:

Number of cartons needed to pack 1152 soap bars = 8 Number of cartons needed to pack 1 soap bar = $\frac{8}{1152}$ [less number of soaps, less number of cartons needed] Now, number of cartons needed to pack 3888 soap bars = $\frac{8}{1152} \times 3888 = 27$

: 27 cartons are needed to pack 3888 soap bars.

Q11

Answer:

Number of cardboards in a pile of thickness 44 mm = 16 Number of cardboards in a pile of thickness 1 mm = $\frac{16}{44}$ Number of cardboards in a pile of thickness 71.5 cm = $\frac{16}{44} \times 71.5 \times 10 = 260$ \uplambda 260 cardboards will be there in a pile of thickness 71.5 cm.

Q12

Answer:

Height of the flagstaff that casts a shadow of length 8.2 m = 7 mHeight of the building that casts a shadow of length 1 m = $\frac{7}{8.2}$ m Height of the building that casts a shadow of length 20.5 m = $\frac{7}{8.2} \times 20.5$ m = 17.5 m : The height of the required building is 17.5 m.

Q13

Answer:

Number of men employed to built the 16.25 m long wall = 15 Number of men required to built a 1 m long wall = $\frac{15}{16.25}$

Number of men that should be employed to built a 26 m long wall = $\frac{15}{16.25} \times 26 = 24$ $\stackrel{.}{.}$ 24 men should be employed to build a wall of length 26 m in a day.

Q14

weight of 1 kg $50 \, \text{c}^{-1}$









Unitary Method RS Aggarwal Class 7 Maths Solutions Exercise 9B

April 18, 2017 by **Rajashekhar** — **1 Comment**

[Total: 38 Average: 3.5/5]

Unitary Method RS Aggarwal Class 7 Maths Solutions Exercise 9B

Unitary Method RS Aggarwal Class 7 Maths Solutions Exercise 9B

Q1

Answer:

48 men can dig a trench in 14 days.

1 man can dig the trench in 14 \times 48 days.

Therefore, 28 men can dig the trench in $\frac{14\times48}{28}$ days = 24 days

[less men, more days] [more men, less days]

Hence, 28 men will take 24 days to dig a similar trench.

Q2

Answer:

No. of men required to reap the field in 30 days = 16 No. of men required to reap the field in 1 day = 16×30 (less days, more men Now, no. of men required to reap the field in 24 days = $\frac{16 \times 30}{24}$ = 20 (more days, less men)

: 20 men are required to reap the field in 24 days.

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Wondershare

Answer:

Number of cows that can graze the field in 13 days = 45 Number of cows that can graze the field in 1 day = 45×13 [Less days, more cows] Therefore, number of cows that can graze the field in 9 days = $\frac{45 \times 13}{9}$ = 65 [More days, less cows]

Hence, 65 cows can graze the field in 9 days.

Q4

Answer:

Time taken by 16 horses to consume the corn = 25 days Time taken by 1 horse to consume the corn = 25×16 [less horses, more time taken] Time taken by 40 horses to consume the corn = $\frac{25 \times 16}{40}$ = 10 days [more horses, less time taken]

Hence, 40 horses would consume the same quantity of corn in 10 days.

Q5

Answer:

Days taken to finish the book if 18 pages are read everyday = 25 Days taken to finish the book if 1 page is read everyday = 18 ×25 fless pages, more Now, days taken to finish the book if 15 pages are read everyday = $\frac{18 \times 25}{15}$ = 30 [more pages, less

Hence, the girl will take 30 days to finish the book if she reads 15 pages everyday

Q6

Answer:

Time taken to type 40 words per minute = 24 min Time taken to type a word per minute = 24 × 40 min Now, time taken to type 48 words per minute = $\frac{24 \times 40}{48}$ =

Hence, Geeta will take 20 minutes to type the same document if her typing speed is 48 words/min.

Q7

Answer:

Time taken to cover the distance at a speed of 45 km/h = 3 h 20 min = 200 min Time taken to cover the distance at a speed of 1 km/h = 45×3.33 min [less speed, more time] Time taken to cover the distance at a speed of 36 km/h = $\frac{45 \times 3.33}{36}$ = 4.1625 h ≈ 4 h 10 min

Hence, the bus will take 4 h 10 min to cover the distance if its speed is 36 km/h.

Q8

Answer:

Millionsians a practice Time taken to make 240 tonnes of steel = 30 days Time taken to make 1 tonne of steel = 30×240 days Now, time taken to make 300 or (240 + 60) tonnes of steel = $\frac{30 \times 240}{300}$ = 24 days

: The materials will last for 24 days if 60 more tonnes of steel is to be made that month

Q9

Answer:

Initially, the contractor had 210 men for 60 days. After 12 days, 70 more men joined.

210 men can finish the work in 48 days 1 man can finish the work in 210 × 48 days Now, 280 men can finish the work in $\frac{210 \times 48}{290}$ days = 36 days.

Hence, it will take 36 days to finish the remaining work.

Q10

Remove Watermark



Answer:

No. of men for which the provision will last for 25 days = 360 No. of men for which the provision will last for 1 day = 360×25 Now, no. of men for which the provision will last for 30 days = $\frac{360 \times 25}{20}$ = 300

∴ 60 men, i.e., (360 - 300), must be transferred to another camp so that the provision lasts for 30 days.

11

Answer:

Number of days for which the food is sufficient for 120 men = 195 Number of days for which food is sufficient for 1 man = 120×195 Number of days for which food is sufficient for 90 men = $\frac{120 \times 195}{90}$ = 260

Hence, the food will last for 260 days.

Q12

Answer:

We are given that in a fort, 1200 soldiers had enough food for 28 days. Let x soldiers left after 4 days, thus, remaining soldiers = 1200 - x Now, for these remaining soldiers food lasts for 32 days. As number of soldiers decrease, food lasts long.

Thus, situation after 4 days is
$$1200 \times 24 = (1200 - x) \times 32$$

$$\Rightarrow (1200 - x) = \frac{1200 \times 24}{32}$$

$$\Rightarrow 1200 - x = 900$$

$$\Rightarrow x = 1200 - 900$$

$$\Rightarrow x = 300$$
 Thus 300 soldiers left the fort after 4 days

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Unitary Method RS Aggarwal Class 7 Maths Solutions Exercise 9A

April 23, 2017

In "Class 7"

Unitary Method RS Aggarwal Class 7 Maths Solutions Exercise 9C

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Unitary Method Exercise 9C



Q1

Answer:

(c) 45.6 kg

Weight of the rod of length 4.5 m = 17.1 kg Weight of the rod of length 1 m = $\frac{17.1}{4.5}$ kg [less length, less weight]

: Weight of the rod of length 12 m = $\frac{17.1}{4.5}$ \times 12 = 45.6 kg [more length, more weight]

Q2

Answer:

(d) none of these

0.8 cm represents 8.8 km.

Answer:

Distance covered in 20 min = 5 km

Distance covered in 1 min = $\frac{5}{20}$ km

Distance covered in 50 min = $\frac{5}{20} \times 50 = 12$ fence, Raghu will cover a distance [less time, less distance covered] [more time, more distance covered]

Q4

Answer:

Number of days for which 500 men have enough food = 24 Number of days for which 1 man has enough food = 24×500 [less men, more food] Number of days for which 800 men have enough food = $\frac{24 \times 500}{800}$ = 15 [more men, less food] Hence, the food will last for 15 days after the reinforcement of 300 men.

Thus, the correct option is (d):

Q5

Answer:

Time taken to fill $\frac{4}{5}$ of a cistern = 1 min Time taken to fill 1 cistern $=\frac{5}{4}$ min
Time taken to fill $\frac{1}{5}$ of a cistern $=\frac{5}{4}\times\frac{1}{5}=\frac{1}{4}$ min = 15 seconds

Hence, it will take 15 seconds to fill the rest of the cistern.

Thus, the correct option is (b).



Answer:

Number of cows that eat as much as 15 buffaloes = 21 Number of cows that eat as much as 1 Buffalo = $\frac{21}{15}$ Number of cows that eat as much as 35 buffaloes = $\frac{21}{15} \times 35$ = 49 Hence, 49 cows will eat as much as 35 buffaloes.

Thus, the correct option is (a).

Q7

Answer:

(b) 75 m

Height of the tree that casts a 4 m long shadow = 6 m Height of the tree that casts a 1 m long shadow = $\frac{6}{4}$ m \therefore Height of the flag pole that casts a 50 m long shadow = $\frac{6}{4} \times 50$ = 75 m

Q8

Answer:

8 men finish the work in 40 days.

1 man can finish the work in 8×40 days.

10 men can finish the work in $\frac{8 \times 40}{10} = 32$ days.

12 more men join them, the work will be completed in 32 days.

13 men can finish the work in $\frac{8 \times 40}{10} = 32$ days.

The correct option is (b).

Q9

Answer:

Number of days taken to reap the field by 16 men = 30 days Number of days taken to reap the field by 1 man = 30×16 days Number of days taken to reap the field by 20 men = $\frac{30 \times 16}{20}$ = 24 days

[Less men, more days] [More men, less days]

Hence, 20 men will take 24 days to reap the field.

The correct option is (b).

Q10

Answer:

Time taken to fill the tank by 10 pipes = 24 min

Time taken to fill the tank by 1 pipe = 24 \times 10 min

[Less pipes, more time taken]

Time taken to fill the tank by 8 pipes = $\frac{24 \times 10}{8}$ min = 30 min

[More pipes, less time taken]

Hence, it will take 30 minutes to fill the tank if two pipes go out of order.

The correct option is (c).

Q11

Answer:

Cost of 72 eggs = Rs 108
Cost of 1 egg = Rs $\frac{108}{72}$
Cost of 132 eggs = RS $\frac{108}{72}$ × 132 = Rs 198

Hence, 132 eggs will cost Rs 198

The correct option is (d).





Answer:

Time taken by 12 workers to complete the job = 4 h Time taken by 1 worker to complete the job = $4 \times 12 \, \text{h}$ Time taken by 15 workers to complete the job = $\frac{4 \times 12}{15}$ = 3 h 12 min

Hence, 15 workers will complete the job in 3 h 12 min.

The correct option is (b).

Q13

Answer:

500 men had enough food for 24 days. 1 man had enough food for 24×500 days. [Less men, more days] 800 men had enough food for $\frac{24 \times 500}{800}$ = 15 days [More men , less days]

Hence, the food will now last for 15 days after the reinforcement of 300 men.

The correct option is (a).

014

Answer:

(c) 98

No. of rounds around the cylinder of radius 14 cm = 140 No. of rounds around the cylinder of radius 1 cm = $140\times14_{\odot}$ [Less radius, more rounds] No. of rounds around the cylinder of radius 20 cm = $\frac{140 \times 14}{20}$ = 98 [More radius, less rounds]

Hence, the rope makes 98 rounds around the circumference of the cylinder of radius 20 cm.

Q15

No. of toys made in $\frac{2}{3}$ h = 1 No. of toys made in 1 h = $\frac{3}{2}$ No. of toys made in $7\frac{1}{3}$ h = $\frac{3}{2} \times \frac{22}{3} = 11$

Hence, the worker will make 11 toys in $7\frac{1}{3}$ h.

The correct option is (d).

Q16

Answer:

Men required to finish the work in 8 days = 10 Men required to finish the work in 1 day = 10×8 Men required to finish the work in half a day = $\frac{10\times8}{1}$ = $10\times8\times2$ = 160 [Less days, more men]

Hence, 150 (i.e., 160 - 10) men are added to finish the work in half a day

The correct option is (d).