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## MATHS

## BOOKS - ARIHANT SSC MATHS (HINGLISH)

## UNITARY METHOD

Example

1. If the price of 8 bananas is Rs40, then find
out the price of 12 bananas.
2. Ramesh walks 160 m everyday, how many kilometers will he walk in 4 weeks.

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3. If Karan travels at a speed of 60 kmph and covers a distance in 9 hrs., then how much
time will he take to travel the same distance at
a speed of $90 \mathrm{kmph} ? 8 \mathrm{hrs}$ b. 6 hrs c .12 hrs d .

9 hrs

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4. If 15 chains cost Rs 120 , then how much do

70 chains cost?

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5. If the wages of 12 men for 30 days be Rs4200, then find out the wages of 24 men for

18days.

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6. If $30 m e n$ working 18 h per day can reap a
field in 32 days, in how many days can 36 men
reap the field working 16 h per day ?

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Exercise Base Level Questions

1. If cost of 24 oranges is Rs72. then find out the cost of 120 oranges.
A. ? 180
B. ? 360
C. X 172
D. ? 500

Answer: B
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2. If cost of 12 pens is Rs84. then what is the cost of 10 such pens ?
A. ? 90
B. ? 72
C. ? 65
D. ? 70

Answer: D

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3. If the cost of 15 eggs is Rs75, then find out the cost 4 dozens eggs.
A. ? 240
B. ? 300
C.? 150
D. ? 185

Answer: A

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4. If 16 dozens bananas cost Rs 360 . then how many bananas can be bought in Rs60 ?
A. 16 bananas
B. 48 bananas
C. 32 bananas
D. 50 bananas

Answer: C

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5. A worker makes a toy in every 2 h . If he works
for 80 h , then. How many toys will he make?
A. 40
B. 54
C. 45
D. 39

Answer: A

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6. If price of $m$ articles is Rsn, then what is the price of 5 articles ?

> A. $\operatorname{Rs} \frac{5 n}{m}$
> B. $\operatorname{Rs} \frac{m n}{5}$
> C. $\operatorname{Rs} \frac{m}{n}$
> D. $\operatorname{Rs} \frac{5 m}{n}$

Answer: A

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7. 12 men can do a piece of work in 24 days.

How many days are needed to complete the work, if 8 men are engaged in the same work ?
A. 28
B. 36
C. 48
D. 52

Answer: B

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# 8. If 45 m of a uniform rod weighs 171 kg , then 

what will be the weight of 12 m of the same rod
?
A. 49 kg
B. 42.5 kg
C. 55 kg
D. 45.6 kg

Answer: D

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9. Maganlal, a worker, makes an article in every
$\frac{2}{3} \mathrm{~h}$. If he works for $7 \frac{1}{2} \mathrm{~h}$, then how many articles will he make?
A. $11 \frac{1}{4}$
B. $11 \frac{1}{3}$
C. $11 \frac{1}{6}$
D. $11 \frac{2}{5}$

Answer: A

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10. Shantanu completes $5 / 8$ of a job in 20
days. At this rate, how many more days will he take to finish the job?
A. 6 days
B. 18 days
C. 5 days
D. 12 days

Answer: D

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11. 20 men can build 56 m wall in 6 days. What
length of a similar wall can be build by 70 men
in 3 days?
A. 100 m
B. 98 m
C. 48 m
D. 85 m

Answer: B

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12. 22 men can complete a job in 16days. In
how many days, will 32 men complete that job?
A. 14
B. 12
C. 16
D. 11

Answer: D

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13. If 30 men working 9 h per day can reap a
field in 16 days, in how many days, will 36 men
reap the field working 8 h per day ?
A. 15
B. 25
C. 18
D. 10

Answer: A

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14. In a race, Ravi covers 5 km in 20 min . How much distance will he cover in 100 min ?
A. 40 km
B. 35 km
C. 26 km
D. 25 km

Answer: D
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15. A garrison of 1000 men has provisions for 48 days. However, a reinforcement of 600 men arrived. How long will now food last for ?
A. 35 days
B. 30 days
C. 25days
D. 45 days

Answer: B
16. A tree is 12 m tall and casts an 8 m long
shadow. At the same time, a flag pole casts a

100m long shadow. How long is the flag pole?
A. 150 m
B. 200 m
C. 125 m
D. 115 m

Answer: A

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17. If 12 persons working 16 h per day earn ?

33600 per week, then how much will 18 person
earn working 12 h per week?
A. $X 40000$
B. X35000
C. ?28800
D. ?37800

Answer: D

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18. If 10 spiders can catches 10 flies in 10 min,
the how many flies can 200 spiders catch in

200 min ?
A. 2000
B. 5000
C. 4000
D. 3000

Answer: C

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19. 2000 soldiers in a fort had enough food for

20 days. But some soldiers were transferred to
another fort and the food lasted for 25 days.

How many soldiers were transferred ?
A. 400
B. 450
C. 525
D. 500

Answer: A
20. If in a hostel, food is available for 45 days
for 50 students. For how many days will this
food be sufficient for 75 students ?
A. 25 days
B. 28 days
C. 30 days
D. 40 dyas

Answer: C
21. In a garrison, there was food for 1000 soldiers for one month. After 10 days, 1000 more soldiers joined the garrison. How long would the soldiers be able to carry on with the remaining food ?
A. 25 days
B. 20 days
C. 15 days
D. 10 days

## Answer: D

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22. A garrison is provided with ration for 72
soldiers to last for 54 days. Find how long
would the same amount of food last for 90
soldiers, if the individual ration is reduced by
$10 \%$ ?
A. 48 days
B. 72 days
C. 54 days
D. 126 days

Answer: A

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## Exercise Higher Skill Level Questions

1. 3 men can do a piece of worki $n 18$ days, 6
boys can also do the same work in 18 days. In
how many days, 4 men and 4 boys together will finish the work?
A. 10days
B. 6 days
C. 21 days
D. 9 days

Answer: D

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2. A man and a boy working together can complete a work in 24 days. If for the last 6 days, the man alone does the work, then it is completed in 26 days. How long will the boy take to complete the work alone?
A. 72 days
B. 73 days
C. 49 days
D. 62 days

Answer: A
3. 25 men can reap a field in 20 days. When should 15 men leave the work, if the whole field is to be reaped in 35 days after they leave the work?
A. After 5 days
B. After 10 days
C. After 9 days
D. After 7 days

Answer: A

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4. 10 men and 8 women can together complete
a work in 5 days. Work done by a woman is
equal to the half of the work done by a man. In
how many days, will 4 men and 6 women complete that work ?
A. 12 days
B. 10 days
C. 8 days
D. 9 days

Answer: B

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5. If 12 engine consume 30 metric tonnes of
coal when each is running 18 h per day, how much coal will be required for 16 engines, each
running 24 h per day, it being given that 6
engies of former type consume as much as 8 engines of latter type ?
A. 10 tonnes
B. 5 tonnes
C. 2 tonnes
D. 40 tonnes

Answer: D
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6. If 12 men or 18 women can do a piece of
work in 14 days, then how long will 8 men and

16 women take to finish the work?
A. 9 days
B. 10 days
C. 12 days
D. 14 days

Answer: A

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7. 8 men can complete a work in 12 days, 4
women can complete it in 48 days and 10
children can complete the same work in 24 days. In how many days can 10 men, 4 women and 10 children complete the same work?
A. 10 days
B. 5 days
C. 7 days
D. 6 days

Answer: D
8. 20 men complete one-third of a work in 20 days. How may more men should be employed to finish the rest of th ework in 25 more days ?
A. 10
B. 12
C. 15
D. 20
9. 40 men complete one-third of a work in 40 days. How many more men should be employed to finish the rest of the work in 50 more days?
A. 12
B. 20
C. 18
D. 24

## Answer: D

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