



# MRA DAV Public School Solan

## Holiday Home Work: Mathematics

### Class – V (promoted to VI)

#### Factors and Multiples

- Using prime factorization method, find H.C.F. and L.C.M. of the given numbers:-
  - 28,32 and 50
  - 18,26,32 and 38
  - 16 and 18
  - 32,46,58 and 64
- Write one pair of prime numbers such that the sum of each pair is also a prime number.
- Reduce into lowest term:- a)  $\frac{368}{575}$       b)  $\frac{803}{876}$
- Find the least number which when divided by 15, 25, 30 and 40 leaves remainder 7 in each case.
- Find the smallest number which when divided by 8, 12 and 16 leaves no remainder.
- Find the greatest number of 4- digits which is exactly divisible by 14, 42 and 56.
- Find the size of the largest square tile, so that the exact number of such tiles can be laid down on floor measuring 24m by 20m.
- Which greatest possible length can be used to measure exactly 15m 75cm; 11m 25 cm and 7m 65cm.
- Find the greatest number which on dividing 1661 and 2045 leaves a remainder of 10 and 13 respectively.
- Six bells commence tolling together and toll at the intervals of 2,4,6,8,10,12 seconds respectively. In 60 minutes how many times they will toll together?
- Find the least number when divided by 5, 6, 7 and 8 leaves a remainder 3, but when divided by 9 leaves no remainder.
- A, B and C start at the same time in the same direction to run around a circular stadium. A completes a round in 252 seconds, B in 308 seconds and C in 198 seconds, all starting at the same point. After what time will they again meet at the starting point?

13. Find the greatest number that divides 400,435 and 541 leaving 9, 10 and 14 as remainders respectively.
14. An electronic device makes a beep after every 60 sec. Another device makes a beep after every 62 sec. They beeped together at 10:00 a.m. What will be the time when they will next make a beep together at the earliest?  
pieces of lengths 45cm, 75cm and 81 cm.
15. The length, breadth, height of a room are 6m 80 cm, 5m 10cm and 3m 40 cm respectively. Find the longest tape which can measure the dimensions of the room exactly.
16. Find the largest number that divides 92 and 74 leaving 2 as remainder.
17. Find the smallest number which on adding 19 to it is exactly divisible by 28, 36 and 45.
18. What is the greatest possible length which can be used to measure exactly the lengths 7m, 3m 85cm and 12m 95cm?
19. Find the least number which should be added to 2497 so that the sum is exactly divisible by 5, 6, 4 and 3.
20. Lengths of steps of three girls are 45cm, 50cm and 60cm respectively. Having started together, they will cover how much distance to see their steps together?

### **Simplification of Numerical Expressions**

Solve the following numerical expressions:-

21.  $57 + 23 - 13 - 4 \times \frac{1}{2} \div \frac{1}{2}$
22.  $\frac{7}{6} + 2\frac{5}{6} - 2\frac{2}{11} \times \frac{22}{24}$
23.  $14 - 8 \div 4 + 5 \times 3$
24.  $3\frac{1}{2} + 2\frac{5}{7} \times \frac{7}{19} - \frac{1}{2} \div 2$
25.  $\frac{1}{2} + \frac{3}{10} \div \frac{3}{5} - \frac{1}{3} \times \frac{5}{2}$
26.  $\frac{2}{3} + \frac{3}{4} \times \frac{8}{9} - \frac{1}{2}$
27.  $6 \times 6 + 6 \div 6 - 6$
28.  $96 \div 32 \times 2 + 45 \div 5 \times 3 - 2$
29.  $\frac{2}{5} + 12 \div \frac{4}{3} \times 2$

30.  $7 - 0.4 \times 2.6 + 0.08$
31.  $11 - \frac{2}{3} + \frac{1}{5} \times 20$
32.  $5.75 + 4.8 \times 3.5 + 0.9$
33.  $21 - 8.5 \times 0.7 + 5.15$

### **Percentage (Profit and Loss + Simple Interest)**

34. Find the value of :- a) 20% of 2100                      b) 15% of 300 kg
35. Convert into percentage :- a)  $\frac{3}{4}$                       b)  $1\frac{2}{5}$
36. Priya scored 41 marks out of 50 in Hindi and 36 out of 60 in English. In which subject did she performed better?
37. Amit saves 15% of his salary. If he receives Rs 12,160 per month as salary. Find his monthly expenditure?
38. The price of a room cooler is Rs 3,600. If its price increases by 20% , what will be its new price?
39. Anshul bought an old car for Rs 35,560. He spend Rs 3575 on its repairs. He sold it for Rs 40,000. How much profit did he make?
40. If a chair was sold for Rs 990 at a loss of Rs 110. Find the cost price of the chair?
41. A man bought eggs at Rs 2.50 per egg. If he sells them at Rs 36 a dozen, find his loss or profit.
42. Find the simple interest and amount in each of the following:-
 

a) P = Rs 1800	R = 5%	T = 1 year
b) P = Rs 2600	R = 12%	T = 3 years
c) P = Rs 3125	R = 15%	T = 73 days
d) P = Rs 5660	R = 11%	T = 9 months
e) P = Rs 180	R = 3%	T = $1\frac{1}{4}$ year
43. At what rate percent per annum will Rs 4000 yield an interest of Rs 410 in 2 years?

44. In how many years will Rs 12,000 yield an interest of Rs 13230 at 10% simple interest?
45. At what rate of simple interest will Rs 5000 amount to Rs 6050 in 3 years 4 months?
46. Richa deposits Rs 5400 and got back an amount of Rs 6000 after a year. Find the simple interest she got?

### **Holiday Home Work: English**

#### **Class – V (promoted to VI)**

- Q1 How did you spend your holidays? Write a page weekly of your diary to express your feelings.
- Q2 Cut articles from the Newspapers and paste on the notebook. Make columns and write nouns, adjectives, verbs and prepositions
- Q3 Read any book of your interest. Make Book Cover and write a short Book Review on it.
- Q4 Use dictionary and find two new words daily and use them in your sentences.
- Q5 Draw or paste pictures of all the festivals or important days which have come during your holidays.