|  |  |  | INDIAN SCHOOL AL WADI AL KABIR <br> Class VI, Mathematics Worksheet-PLAYING WITH NUMBERS 14-08-2020 (ANSWERS) |  |  |  |  |  |
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| OBJECTIVE TYPE (1 Mark) |  |  |  |  |  |  |  |  |
| Q.1. | The H.C.F of two coprime numbers is: |  |  |  |  |  |  |  |
|  | A |  | B | 1 | C |  | D |  |
| Q.2. | An example of a perfect number is: |  |  |  |  |  |  |  |
|  | A | 28 | B |  | C |  | D |  |
| Q.3. | The smallest odd composite number is: |  |  |  |  |  |  |  |
|  | A |  | B |  | C | 9 | D |  |
| Q.4. | Which of the following pairs are co-prime? |  |  |  |  |  |  |  |
|  | A |  | B |  | C |  | D | 211, 212 |
| Q.5. | The L.C.M of 7 and 8 is : |  |  |  |  |  |  |  |
|  | A |  | B |  | C |  | D |  |
| Q.6. | Find a number which is divisible by both 3 and 9 is: |  |  |  |  |  |  |  |
|  | A |  | B |  | C | 57123 | D |  |
| Q.7. | A pair of twin primes are: |  |  |  |  |  |  |  |
|  | A | 11,13 | B |  | C |  | Q |  |
| Q.8. | The maximum capacity of a container that can measure 60 litre and 75 litre exactly is : |  |  |  |  |  |  |  |
|  | A | 15 litres | B |  | C |  | D |  |
| Q.9. | 4384 is not divisible by |  |  |  |  |  |  |  |
|  | A |  | B |  | C |  | D |  |




|  | Solution: <br> Here, the greatest capacity of tin will be equal to the HCF of 120,180 and 240. <br> Prime factorization Of $120=2 \times 2 \times 2 \times 3 \times 5$ <br> Prime factorization Of $180=2 \times 2 \times 3 \times 5 \times 3$ <br> Prime factorization of $240=2 \times 2 \times 2 \times 3 \times 5 \times 2$ <br> Thus, the HCF of 120,180 and $240=2 \times 2 \times 3 \times 5=60$ <br> Greatest capacity of tin $=$ HCF of 120,180 and $240=60 \mathrm{~L}$ |
| :---: | :---: |
| Q25. | Find the least number, which when divided by 25,30 and 70 leaves a remainder 11. <br> L C M of 25,30 and 70$\mathrm{LCM}=5 \times 5 \times 3 \times 2 \times 7=1050$5 25 30 70 <br> 5 5 6 14 <br> 2 1 6 14 <br> 3 1 3 7 <br> 7 1 1 7 <br>  1 1 1 <br> Least number, which when divided by 25,30 and 70 leaves a remainder 11 $=\mathrm{LCM}+\text { remainder } 11=1050+11=1061$ |

