

Answer the following:

1) Write down:

- a. Largest 3-digit odd number with a 7 in the tens place
- b. Smallest 4-digit even number with a 6 in the hundreds place

2) Which of these numbers are palindromes?

- a. 24 124
- b. 13 231
- c. 46 446
- d. 7 007

3) Write the first 6 multiples of:

- a. 4
- b. 6
- c. 7
- d. 9

4) a. find the 8th multiple of 5.

b. Which multiple of 6 is 42?

5) How could you test a number for divisibility by 18?

6) Find all factors of each number:

- a. 16
- b. 30
- c. 42
- d. 72

7) Find the GCF of:

- a. 15 and 20
- b. 21 and 28
- c. 32 and 40

8) Use the given prime factors to find the GCF of each pair of numbers.

a. $441 = 3 \times 3 \times 7 \times 7$ and $1134 = 2 \times 3 \times 3 \times 3 \times 3 \times 7$

b. $3575 = 5 \times 5 \times 11 \times 13$ and $33275 = 5 \times 5 \times 11 \times 11 \times 11$

9) a. Show that $36 \times 16 = 576$.

b. Hence, find $\sqrt{576}$.

10) Use the given prime factors to find the LCM of each pair of numbers.

a. $18 = 2 \times 3 \times 3$ and $42 = 2 \times 3 \times 7$

b. $392 = 2 \times 2 \times 2 \times 7 \times 7$ and $700 = 2 \times 2 \times 5 \times 5 \times 7$

Answer Key

- 1) a. 979
b. 1 600
- 2) b. 13 231
d. 7 007
- 3) a. 4, 8, 12, 16, 20, 24
b. 6, 12, 18, 24, 30, 36
c. 7, 14, 21, 28, 35, 42
d. 9, 18, 27, 36, 45, 54
- 4) a. 40
b. 7th
- 5) If it has a factor of 2 and 9.
- 6) a. (1,2,4,8,16)
b. (1,2,3,5,6,10,15,30)
c. (1,2,3,6,7,14,21,42)
d. (1,2,3,4,6,8,9,12,18,24,36,72)
- 7) a. 5
b. 7
c. 8
- 8) a. 63
b. 275
- 9) a. $36 \times 16 = 576$
b. 24
- 10) a. 126
b. 9 800