

Factors, Multiples & Primes

Question 1

Find all the factors of the following numbers.

- | | | | |
|-------|------|-------|-------|
| a) 6 | b) 8 | c) 20 | d) 2 |
| e) 18 | f) 1 | d) 45 | h) 53 |

Question 2

Write down the first 5 multiples of each number.

- | | | | |
|-------|-------|-------|--------|
| a) 10 | b) 8 | c) 1 | d) 9 |
| e) 12 | f) 29 | g) 45 | h) 999 |

Question 3

Decide if the following numbers are prime:

- | | | | |
|-------|--------|--------|--------|
| a) 13 | b) 23 | c) 33 | d) 41 |
| e) 51 | f) 111 | g) 101 | h) 909 |

Question 4

Find the lowest common multiple (LCM) of:

- | | | |
|-------------|-------------|--------------|
| a) 2 and 5 | b) 1 and 7 | c) 6 and 8 |
| d) 6 and 10 | e) 9 and 24 | f) 10 and 14 |

Answers

Question 1

Find all the factors of the following numbers.

- | | | | |
|----------------------------|--------------------|-----------------------------|----------------|
| b) 6
1, 2, 3, 6 | b) 8
1, 2, 4, 8 | c) 20
1, 2, 4, 5, 10, 20 | d) 2
1, 2 |
| e) 18
1, 2, 3, 6, 9, 18 | f) 1
1 | d) 45
1, 3, 5, 9, 15, 45 | h) 53
1, 53 |

Question 2

Write down the first 5 multiples of each number.

- | | | | |
|-----------------------------|-------------------------------|--------------------------------|---------------------------------------|
| b) 10
10, 20, 30, 40, 50 | b) 8
8, 16, 24, 32, 40 | c) 1
1, 2, 3, 4, 5 | d) 9
9, 18, 27, 36, 45 |
| e) 12
12, 24, 36, 48, 60 | f) 29
29, 58, 87, 116, 145 | g) 45
45, 90, 135, 180, 225 | h) 999
999, 1998, 2997, 3996, 4995 |

Question 3

Decide if the following numbers are prime:

- | | | | |
|--------------------|---------------------|--------------------|---------------------|
| b) 13
Prime | b) 23
Prime | c) 33
Not Prime | d) 41
Prime |
| f) 51
Not Prime | f) 111
Not Prime | g) 101
Prime | h) 909
Not Prime |

Question 4

Find the lowest common multiple (LCM) of:

- | | | |
|-------------------|-------------------|--------------------|
| b) 2 and 5
10 | b) 1 and 7
7 | c) 6 and 8
24 |
| e) 6 and 10
30 | e) 9 and 24
72 | f) 10 and 14
70 |