Multiples — Code Breaker

For each question, find the answer to each of the clues. Use the clues and the table to work out what letters are in each code word. Then unscramble the letters to find the code words.

A	B	C	D	E	F	G	H	I	J	K	L	M
32	108	6	55	9	46	10	28	62	77	64	15	27
N	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
45	100	132	40	21	54	90	84	49	99	18	66	35

1. **Clue 1**: The sum of the two digits of the 8th multiple of 8. ....
    Clue 2: I am the 9th multiple of 3 and the 3rd multiple of 9. ....
    Clue 3: The difference between the 6th multiple of 7 and the 4th multiple of 9. ....
    Clue 4: The number in this list which is not a multiple of 6 – 18, 32, 54, 66, 84. ....
    Clue 5: The sum of the two numbers which are not multiples of 3 in this list – 12, 16, 6, 18, 60, 36, 46. ....

    The letters in the code word are: ....

    The code word is: ....

2. **Clue 1**: The 4th multiple of 6 plus the 7th multiple of 6. ....
    Clue 2: Half of the 8th multiple of 8. ....
    Clue 3: The first common multiple of 11 and 12. ....
    Clue 4: The product of the two digits of the 5th multiple of 7. ....

    The letters in the code word are: ....

    The code word is: ....

3. **Clue 1**: The missing number in this sequence of multiples – 36, 48, 60, 72 _____ 96 ....
    Clue 2: The 6th multiple of 11 minus the 2nd multiple of 2. ....
    Clue 3: How many numbers in the table are multiples of 7? ....
    Clue 4: I am 5 less than the 8th multiple of 4. ....
    Clue 5: Which of these is a multiple of 6 and 9? – 24, 30, 63, 54, 81 ....

    The letters in the code word are: ....

    The code word is: ....

4. **What do all the code words have in common?**

    ....

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32	108	6	55	9	46	10	28	62	77	64	15	27
N	**O**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
45	100	132	40	21	54	90	84	49	99	18	66	35

1. **Clue 1**: The sum of the two digits of the 8th multiple of 8. 10
   Clue 2: I am the 9th multiple of 3 and the 3rd multiple of 9. 27
   Clue 3: The difference between the 6th multiple of 7 and the 4th multiple of 9. 6
   Clue 4: The number in this list which is not a multiple of 6 – 18, 32, 54, 66, 84. 32
   Clue 5: The sum of the two numbers which are not multiples of 3 in this list – 12, 16, 6, 18, 60, 36, 46. 62

   The letters in the code word are: G M C A I

   The code word is: MAGIC

2. **Clue 1**: The 4th multiple of 6 plus the 7th multiple of 6. 66
   Clue 2: Half of the 8th multiple of 8. 32
   Clue 3: The first common multiple of 11 and 12. 132
   Clue 4: The product of the two digits of the 5th multiple of 7. 15

   The letters in the code word are: Y A P L

   The code word is: PLAY

3. **Clue 1**: The missing number in this sequence of multiples – 36, 48, 60, 72 ____ 96 84
   Clue 2: The 6th multiple of 11 minus the 2nd multiple of 2. 62
   Clue 3: How many numbers in the table are multiples of 7? 6
   Clue 4: I am 5 less than the 8th multiple of 4. 27
   Clue 5: Which of these is a multiple of 6 and 9? – 24, 30, 63, 54, 81 54

   The letters in the code word are: U I C M S

   The code word is: MUSIC

4. **What do all the code words have in common?**

   They are forms of entertainment (that can be performed on stage).