

Task 1 : Identifying the factors of a number

Task 2 : Identifying multiples of a number

Task 3 : Finding the highest common factor of 2 numbers

Task 4 : Finding the lowest common multiple of 2 numbers

Help and Hints.....

TASK 1

List the factors of 36

Find the numbers that 'multiply' to make 36

$$1 \times 36 = 36$$

$$2 \times 18 = 36 \quad \text{So the factors are}$$

$$3 \times 12 = 36 \quad 1, 2, 3, 4, 6, 9, 12, 18 \text{ and } 36$$

$$4 \times 9 = 36$$

$$6 \times 6 = 36$$

TASK 2

What is the 7th multiple of 6?

$$7 \times 6 = 42$$

What is the 10th multiple of 16?

$$10 \times 16 = 160$$

Multiples and Factors

TASK3

Find the highest common factor of 30 and 45

The factors of 30 are

$$1, 2, 3, 5, 6, 10, \textcircled{15} \text{ and } 30$$

The factors of 45 are

$$1, 3, 5, 9, \textcircled{15} \text{ and } 45$$

The 'highest' number in both lists is 15

15 is the highest common factor of 30 and 45

TASK 4

Find the lowest common multiple of 18 and 30

The first few multiples of 30 are

$$20, 60, \textcircled{90}, 120, 150$$

The first few multiples of 18 are

$$18, 36, 54, 72, \textcircled{90}$$

90 is the smallest number in both lists

90 is the lowest common multiple of 18 and 30

Multiples and Factors

TASK 1

1. List the factors of 30
2. List the factors of 48
3. List the factors of 12
4. List the factors of 18
5. List the factors of 54
6. List the factors of 81
7. List the factors of 64
8. List the factors of 75
9. List the factors of 72
10. List the factors of 63
11. List the factors of 32
12. List the factors of 56
13. List the factors of 90
14. List the factors of 100
15. List the factors of 144

TASK 2

1. What is the 8th multiple of 4?
2. What is the 11th multiple of 6?
3. What is the 13th multiple of 5?
4. What is the 9th multiple of 8?
5. What is the 12th multiple of 9?
6. What is the 11th multiple of 12?
7. What is the 6th multiple of 11?
8. What is the 16th multiple of 2?
9. What is the 4th multiple of 15?
10. What is the 12th multiple of 7?
11. What is the 7th multiple of 9?
12. What is the 12th multiple of 8?
13. What is the 9th multiple of 4?
14. What is the 15th multiple of 6?
15. What is the 20th multiple of 20?

TASK 3

1. Find the highest common factor of 30 and 65
2. Find the highest common factor of 12 and 66
3. Find the highest common factor of 27 and 135
4. Find the highest common factor of 135 and 195
5. Find the highest common factor of 63 and 35
6. Find the highest common factor of 48 and 144
7. Find the highest common factor of 21 and 49
8. Find the highest common factor of 28 and 36
9. Find the highest common factor of 55 and 143
10. Find the highest common factor of 63 and 56
11. Find the highest common factor of 110 and 121
12. Find the highest common factor of 42 and 21
13. Find the highest common factor of 64 and 88
14. Find the highest common factor of 40 and 60
15. Find the highest common factor of 25 and 60

TASK 4

1. Find the lowest common multiple of 14 and 10
2. Find the lowest common multiple of 56 and 40
3. Find the lowest common multiple of 54 and 36
4. Find the lowest common multiple of 10 and 20
5. Find the lowest common multiple of 20 and 24
6. Find the lowest common multiple of 56 and 35
7. Find the lowest common multiple of 16 and 12
8. Find the lowest common multiple of 35 and 28
9. Find the lowest common multiple of 8 and 12
10. Find the lowest common multiple of 4 and 8
11. Find the lowest common multiple of 54 and 27
12. Find the lowest common multiple of 35 and 20
13. Find the lowest common multiple of 35 and 42
14. Find the lowest common multiple of 9 and 15
15. Find the lowest common multiple of 32 and 24

Multiples and Factors

ANSWERS

TASK 1

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TASK 2

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TASK 3

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TASK 4

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