



Determine the greatest common factor (GCF) of each set of numbers.

Answers

12, 16 To find the GCF of 12 & 16, first write down the factors of each number.

Factors of 12 1, 2, 3, 4, 6, 12

Factors of 16 1, 2, 4, 8, 16

2 & 4 are factors both 12 and 16 have in common, with 4 being the greatest. So 4 is the GCF.

1) 21, 12

Factors of 21

Factors of 12

1, 3, 7, 21
1, 2, 3, 4, 6, 12

21
3 · 7 1 · 21
12
1 · 12 2 · 6
3 · 4

2) 2, 8

Factors of 2

Factors of 8

1, 2, 4, 8
1, 2, 4, 8

2
1 · 2
8
1 · 8 2 · 4

3) 6, 2

Factors of 6

Factors of 2

____, ____
____, ____

42: 2 · 3 · 7
2 · 21
42
6 · 7 1 · 42
2 · 21 3 · 14
42: 2 · 3 · 7
3 · 14

4) 45, 20

Factors of 45

Factors of 20

____, ____
____, ____

5) 42, 6

Factors of 42

Factors of 6

1, 2, 3, 6, 7, 14, 21, 42
1, 2, 3, 6

33
1 · 6, 2 · 3

6) 6, 33

Factors of 6

Factors of 33

1, 2, 3, 6
1, 3, 11, 33

7) 24, 27

Factors of 24

Factors of 27

____, ____
____, ____

8) 12, 20

Factors of 12

Factors of 20

____, ____
____, ____

9) 21, 27

Factors of 21

Factors of 27

____, ____
____, ____

- 1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

2, 3, 5, 7, 11, 13
17, 19, 23, 29,
31....



Find the least common multiple of both numbers.

Answers

To find the least common multiple one strategy is to list the multiples of the numbers.

4	<u>4</u>	<u>8</u>	<u>12</u>	<u>16</u>	<u>20</u>	<u>24</u>	<u>28</u>	<u>32</u>	<u>36</u>	<u>40</u>	<u>44</u>	<u>48</u>
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6	<u>6</u>	<u>12</u>	<u>18</u>	<u>24</u>	<u>30</u>	<u>36</u>	<u>42</u>	<u>48</u>	<u>54</u>	<u>60</u>	<u>66</u>	<u>72</u>
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Some of the multiples 4 and 6 have in common are: 12, 24, 36 & 48.
The common multiple that is least is 12.

1) 6 6 12 18 24 30 36 42 48 24

8 8 16 24 32 40 48 56 64

2) 4 4 8 12 16 20 24 28 32 36 40 44 48

12 12 24 36 48 60 72 84 96 108 120 132 144

3) 11 11 22 33 44 55 66 77 88 99 110 121 55

5 5 10 15 20 25 30 35 40 45 50 55

4) 2 _____

8 _____

5) 11 _____

12 _____

6) 6 _____

7 _____

7) 9 9 18 27 36 45 54 63 72 81 45

5 5 10 15 20 25 30 35 40 45

8) 2 _____

5 _____

9) 2 _____

9 _____

10) 3 _____

6 _____

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Find the prime factors for each number.

- 1) 81 = 3 · 3 · 3 · 3 *composite number*
- 2) 41 = 1 · 41 *prime*
- 3) 70 = 2 · 5 · 7
- 4) 39 = 3 · 13
- 5) 91 = 7 · 13
- 6) 43 = _____
- 7) 34 = _____
- 8) 16 = 2 · 2 · 2 · 2
- 9) 26 = _____
- 10) 86 = _____
- 11) 18 = _____
- 12) 99 = _____
- 13) 28 = _____
- 14) 47 = _____
- 15) 62 = _____
- 16) 94 = _____
- 17) 68 = _____
- 18) 72 = _____
- 19) 45 = _____
- 20) 47 = _____



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



Use the distributive property to rewrite the expression as a multiple of a sum of two numbers with no common factor.

Ex) $6 + 30 = 6 \times (1 + 5)$

1) $33 + 30 =$ _____

2) $6 + 18 =$ _____

3) $30 + 16 =$ _____

4) $27 + 39 =$ _____

5) $9 + 21 =$ _____

6) $45 + 30 =$ _____

7) $6 + 12 =$ _____

8) $4 + 18 =$ _____

9) $6 + 27 =$ _____

10) $36 + 24 =$ _____

11) $6 + 10 =$ _____

12) $36 + 9 =$ _____

Answers

Ex. $6 \times (1 + 5)$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

*HW Packet 13 (evens)
Supplemental WS
Online HW 29 } May 11th
Quiz 29
HW/α 27 due April 30th
HW/α 28 due May 7th*