Finding factors and common factors

Section A

List all the factors of:
1. 15
2. 12
3. 20
4. 16
5. 8
6. 7
7. 9

Find the common factors of:
8. 15 and 20
9. 12 and 9
10. 4 and 6
11. 10 and 18
12. 16 and 12
13. 20 and 8
14. 12 and 18

True or false:
15. 7 is a factor of 12
16. 3 is a common factor of 9 and 15
17. 8 is not a factor of 24
18. 5 is a common factor of 10 and 20
19. 1,2,3 and 4 are all factors of 24
20. 10 has 4 factors

Section B

Find the common factors of:
1. 14 and 21
2. 16 and 48
3. 6 and 27
4. 22 and 33
5. 12 and 28
6. 36 and 45
7. 32 and 56
8. 21 and 42

Find the highest common factor of:
9. 18 and 24
10. 21 and 35
11. 24 and 32
12. 27 and 45
13. 36 and 60
14. 45 and 30
15. 16 and 30
16. 18 and 30

True or false:
17. 6 is the highest common factor of 12 and 24
18. 8 is the highest common factor of 16 and 24
19. 3 is the highest common factor of 3 and 30
20. 7 is the highest common factor of 21 and 42

Section C

Find the common factors of:
1. 54 and 72
2. 32 and 48
3. 35 and 49
4. 36 and 24
5. 48 and 60
6. 44 and 66
7. 56 and 80
8. 54 and 66
9. 40 and 96

Find the highest common factor of:
10. 45 and 90
11. 45 and 81
12. 49 and 70
13. 64 and 72
14. 54 and 27
15. 54 and 18
16. 35 and 45
17. 35 and 49
18. 144 and 24

True or false:
19. 13 is a common factor of 26 and 52
20. 13 is the highest common factor of 26 and 52
21. The highest common factor of 8 and 12 is the same as the highest common factor of 16 and 20
22. The highest common factor of two even numbers is always even.

For more mathematics resources follow @egtexts

Finding factors and common factors - ANSWERS

Section A

1. 1,3,5,15
2. 1,2,3,4,6,12
3. 1,2,4,5,10,20
4. 1,2,4,8,16
5. 1,2,4,8
6. 1,7
7. 1,3,9

8. 1,5
9. 1,3
10. 1,2
11. 1,2
12. 1,2,4
13. 1,2,4
14. 1,2,3,6

15. F
16. T
17. F
18. T
19. T
20. T

Section B

1. 1,7
2. 1,2,4,8,16
3. 1,3
4. 1,11
5. 1,2,4
6. 1,3,9
7. 1,2,4,8
8. 1,3,7,21

9. 6
10. 7
11. 8
12. 9
13. 12
14. 15
15. 2
16. 6

17. F
18. T
19. T
20. F

Section C

1. 1,2,3,6,9,18
2. 1,2,4,8,16
3. 1,7
4. 1,2,3,4,6,12
5. 1,2,3,4,6,12
6. 1,2,11,22
7. 1,2,4,8
8. 1,2,3,6
9. 1,2,4,8

10. 45
11. 9
12. 7
13. 8
14. 9
15. 18
16. 5
17. 7
18. 24

19. T
20. F
21. T
22. T