

Perfect Numbers?

Proper Factors

What are the proper factors of 15? factors: 1, 3, 5, 15 proper factors: 1, 3, 5

Directions: Study the sample above and the Facts and Reminders page for this unit. List the proper factors for each number listed below.

1. 21

factors: _____
proper factors: _____

2. 25

factors: _____
proper factors: _____

3. 18

factors: _____
proper factors: _____

4. 20

factors: _____
proper factors: _____

5. 28

factors: _____
proper factors: _____

6. 16

factors: _____
proper factors: _____

7. 36

factors: _____
proper factors: _____

8. 44

factors: _____
proper factors: _____

Directions: Use a calculator to compute the sum of the proper factors for each number listed below.

9. 72

factors: _____
proper factors: _____
sum of proper factors: _____

10. 81

factors: _____
proper factors: _____
sum of proper factors: _____

11. 100

factors: _____
proper factors: _____
sum of proper factors: _____

12. 144

factors: _____
proper factors: _____
sum of proper factors: _____

13. 200

factors: _____
proper factors: _____
sum of proper factors: _____

14. 98

factors: _____
proper factors: _____
sum of proper factors: _____

Perfect Numbers?

Working with Abundant and Defective Numbers

Is 24 an abundant or defective number?

The proper factors of 24 are 1, 2, 3, 4, 6, 8, and 12.

The sum of the proper factors is 36. So 24 is an abundant number.

Directions: Study the sample above and the Facts and Reminders page for this unit. List the proper factors for each number listed below. Use a calculator to compute the sum of the proper factors for each number listed below. Label each number as *abundant* or *defective*.

1. 20

proper factors: _____

sum of proper factors: _____

name: _____

2. 16

proper factors: _____

sum of proper factors: _____

name: _____

3. 38

proper factors: _____

sum of proper factors: _____

name: _____

4. 50

proper factors: _____

sum of proper factors: _____

name: _____

5. 64

proper factors: _____

sum of proper factors: _____

name: _____

6. 18

proper factors: _____

sum of proper factors: _____

name: _____

7. 100

proper factors: _____

sum of proper factors: _____

name: _____

8. 36

proper factors: _____

sum of proper factors: _____

name: _____

9. 48

proper factors: _____

sum of proper factors: _____

name: _____

10. 144

proper factors: _____

sum of proper factors: _____

name: _____

11. 125

proper factors: _____

sum of proper factors: _____

name: _____

12. 150

proper factors: _____

sum of proper factors: _____

name: _____

13. 60

proper factors: _____

sum of proper factors: _____

name: _____

14. 90

proper factors: _____

sum of proper factors: _____

name: _____

Perfect Numbers?

Determining Perfect, Abundant, and Defective Numbers

Is 28 an abundant, defective, or perfect number?

The proper factors of 28 are 1, 2, 4, 7, and 14.

The sum of the proper factors is 28. So 28 is a perfect number.

Directions: Study the Facts and Reminders page for this unit. List the proper factors for each number listed below. Use a calculator to compute the sum of the proper factors for each number listed below. Label each number as *abundant*, *defective*, or *perfect*.

1. 116

proper factors: _____

sum of proper factors: _____

name: _____

2. 300

proper factors: _____

sum of proper factors: _____

name: _____

3. 95

proper factors: _____

sum of proper factors: _____

name: _____

4. 380

proper factors: _____

sum of proper factors: _____

name: _____

5. 120

proper factors: _____

sum of proper factors: _____

name: _____

6. 288

proper factors: _____

sum of proper factors: _____

name: _____

7. 496

proper factors: _____

sum of proper factors: _____

name: _____

8. 888

proper factors: _____

sum of proper factors: _____

name: _____

9. 960

proper factors: _____

sum of proper factors: _____

name: _____

10. 100

proper factors: _____

sum of proper factors: _____

name: _____

11. 498

proper factors: _____

sum of proper factors: _____

name: _____

12. 900

proper factors: _____

sum of proper factors: _____

name: _____

13. 1,000

proper factors: _____

sum of proper factors: _____

name: _____

14. 999

proper factors: _____

sum of proper factors: _____

name: _____