

1. What are the first six Fibonacci numbers?
2. Using the Fibonacci rule, finish this sequence:
2, 5, _____, _____, _____, _____
3. What is the reciprocal of $\frac{3}{4}$? _____
of 6? _____
4. What is the difference of 12 and 6? _____

Answers:

1. 1, 2, 3, 5, 8, 13

2. 2, 5, 7, 12, 19, 31

3. $\frac{4}{3}$, $\frac{1}{6}$

4. 6

	counting number	whole number	integer	rational number	irrational number	real
24						
$\frac{2}{3}$						
$\sqrt{7}$						
-6						
0						

	counting number	whole number	integer	rational number	irrational number	real
24	✓	✓	✓	✓		✓
$\frac{2}{3}$				✓		✓
$\sqrt{7}$					✓	✓
-6			✓	✓		✓
0		✓	✓	✓		✓

Evaluate each expression if $x = 2$.

$3x$

x^0

x^3

$6x-5$

Evaluate each expression if $x = 2$.

$3x$

x^0

x^3

$6x-5$

6

1

8

7

Combine like terms:

$$2x + 18 + 5x - 13 + 3x - 0$$

$$6x + x + x + 14 + 60$$

$$5x + 10y - y + y - y - 5x$$

Combine like terms:

$$2x + 18 + 5x - 13 + 3x - 0$$

$$6x + x + x + 14 + 60$$

$$5x + 10y - y + y - y - 5x$$

Answers:

$$10x + 5$$

$$8x + 2$$

$$9y$$

$$2x + 7 = 19$$

$$\frac{x}{2} - 3 = 4$$

$$2x + 7 = 19$$

$$- 7 \quad - 7$$

$$\frac{2x}{2} = \frac{12}{2}$$

$$x = 6$$

$$\frac{x}{2} - 3 = 4$$
$$+ 3 \quad + 3$$

$$\frac{x}{2} = 7$$

$$x = 14$$

$$6x - 2x + 6^0 = 13$$

$$6x - 2x + 6^0 = 13$$

$$4x + 1 = 13$$

$$4x = 12$$

$$x = 3$$

1. What are the first five counting numbers?
2. What is another name for the counting numbers?
3. What is a rational number?
4. Give an example of an irrational number.
5. Change 49 to a palindrome.

Answers:

1. 1, 2, 3, 4, 5

2. natural numbers

3. any number that can be written as a fraction

4. π , $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$

5. 484

$$\begin{array}{r} 49 \\ +94 \\ \hline 143 \\ +341 \\ \hline 484 \end{array}$$

Simplify:

7^1

1^4

$10^2(10^6)$

$2 + 3(4)$

10^0

4^3

$\frac{10^{12}}{10^2}$

$3^2 + 3^1 + 3^0$

$\sqrt{64}$

10^5

Simplify:

7^1 7

1^4 1

$10^2(10^6)$ 10^8

$\underline{2 + 3(4)}$ 14

10^0 1

4^3 64

$\frac{10^{12}}{10^2}$ 10^{10}

$3^2 + 3^1 + 3^0$ 3

$\sqrt{64}$ 8

10^5 100,000

$$4 + 12 \div 4$$

$$\frac{3(8+2)}{5}$$

$$10 - 4(8 - 6)$$

$$4 + 12 \div 4$$

$$\frac{3(8+2)}{5}$$

$$10 - 4(8 - 6)$$

Answers:

7

6

2