Section 1: Number system and arithmetic operations

Natural numbers are $1,2,3,4,5,6,\cdots$ also known as counting numbers.

Whole numbers are $0,1,2,3,4,5,6,\cdots$ also known as natural numbers with 0.

Integers are both positive and negative like $\cdots,-3,-2,-1,\ 0,1,2,3,\cdots$

Even and odd numbers: 0, 2, 4, 6, 8, 10, … are the even numbers, and 1, 3, 5, 7, 9, 11, 13, 15, 17, … are the odd numbers.

Prime numbers: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, …   are prime numbers.

Basic addition and subtraction of real numbers (same sign with two real numbers you add them and keep the sign, example 2 + 3 = 5, and $-2-3=-5$; if you have different signs like 5 – 3, or $-3+5$ your answer is 2, but if you have $3-5$ or $-5+3$ your answer is -2, because the larger number 5 has a negative sign in the left).

$$5+7=12 \qquad 5-7=? \qquad -3+1=? \qquad -2-7=?$$

Worksheet 1:

1. Identify and circle the natural numbers: 3, 6, 1.5, 3.9, 12, -5, 17, -12.5

2. Identify and circle the prime numbers: 12, 7, 5, 15, 13, 21, 2, 6, 19, 17, 23, 43

3. Identify and circle the even numbers: 12, 7, 5, 15, 13, 21, 2, 6, 19, 17, 23, 43

4. Identify and circle the odd numbers: 12, 7, 5, 15, 13, 21, 2, 6, 19, 17, 23, 43

5. Add or subtract:

   a) $13+5$ b) $-3+5$ c) $-3-5$ d) $13-5$

FM²

Name   Date