

# Year 5 Number Knowledge – Summer 1

Each term, your child will focus on two areas to help them with their understanding of number. We would like you to choose one of the following activities to complete at home each week.

## Counting: Interpret negative numbers in context

Put the correct symbol in each box:  
< > =

1.  $-5$    $-3$       2.  $10$    $-10$

3.  $-4$    $6$       4.  $6$    $-2$

5.  $-2$    $12$       6.  $0$    $0$

7.  $14$    $-15$       8.  $-2$    $-1$

9.  $-11$    $-15$       10.  $-2$    $1$

Order these temperatures starting with the coldest.

a.  $4^{\circ}\text{C}, -9^{\circ}\text{C}, -1^{\circ}\text{C}, -5^{\circ}\text{C}, -3^{\circ}\text{C}$

b.  $8^{\circ}\text{C}, 12^{\circ}\text{C}, -13^{\circ}\text{C}, -17^{\circ}\text{C}, 15^{\circ}\text{C}$

c.  $18^{\circ}\text{C}, 15^{\circ}\text{C}, -24^{\circ}\text{C}, -21^{\circ}\text{C}, -11^{\circ}\text{C}, 13^{\circ}\text{C}, 19^{\circ}\text{C}$

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Draw a number line in your homework book from -20 to 20. Choose two numbers and calculate the **difference** between them.

Example: -12 and 6. The difference between them is 18.

Calculate the following.

- $-4 + 10 = \underline{\quad}$
- $-2 - 6 = \underline{\quad}$
- $-8 + 12 = \underline{\quad}$
- $-3 - 7 = \underline{\quad}$
- $10 + -5 = \underline{\quad}$
- $-6 + 14 = \underline{\quad}$

SUPPORT: draw a number line in your book.

## Multiplication tables and related division facts: Prime numbers

**Prime number:** a number that only has 2 factors – 1 and itself

**Composite number:** a number that has more than 2 factors

Choose 20 numbers between 1 and 100. Sort them into the following table:

Prime	Composite

Colour in all the prime numbers to 100.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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Create prime factor trees to help you uncover the prime factors of the following numbers.

Example:  
The prime factors of 28 are  
 $2 \times 2 \times 7 = 28$

Choose one of the following mathematical statements to investigate.

- the largest prime number less than 30 is 29
- all prime numbers are odd
- 2 is the only even prime number

Make sure you explain clearly why you think the statement is true or false with examples.

40	24	45
18	84	72