

Week 1

This week in a nutshell:

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Students begin by looking at topics that should be familiar from Key Stage 2. By building confidence and fluency from the offset of Key Stage 3, students will lay the foundations of a successful secondary maths education. These topics gain usage throughout other areas of maths so misconceptions and solid understanding should be at the forefront this week.

Question 1: Number bonds

Question 2: Multiples

Question 3: Comparing numbers

Question 4: Place value

Question 5: Factor pairs

The questions aim to develop and deepen understanding over the week. Due to the necessity of the topics covered this week, there is an emphasis on the interchangeability of command words, and language flexibility. It may be worth taking some extra time this week to make sure your students are developing their mathematical literacy.

This week's ideas for class discussion include:

Question 1: **Number bonds**

- What can we look for to make these types of calculation easier?
- How might number bonds be useful in "real life situations"?

Question 2: **Multiples**

- Can you think of efficient ways of finding multiples quickly?
- How could multiples be of use in other subject areas?

Question 3: **Comparing Numbers**

- Why is it important to order and compare the size of numbers?

Question 4: **Place Value**

- Are powers of 10 (denary) the only system for place value?

Question 5: **Factor Pairs**

- How could we use factor pairs to find out the properties of a number?

Week 1: Day 1

- 1) Complete the number sentences.

$$12 + 8 = \underline{\quad}$$

$$3 + 27 = \underline{\quad}$$

- 2) Write down the first five multiples of 2.

- 3 Which is the largest number?

23

21

31

- 4) What is the value of the 4 in the number 149?

- 5) Find two pairs of numbers that multiply to make 12.

$$\underline{\quad} \times \underline{\quad} = 12$$

$$\underline{\quad} \times \underline{\quad} = 12$$

Week 1: Day 1 Answers

- 1) Complete the number sentences.

$$12 + 8 = \underline{20}$$

$$3 + 27 = \underline{30}$$

- 2) Write down the first five multiples of 2.

2, 4, 6, 8, 10

- 3 Which is the largest number?

21

31

21

- 4) What is the value of the 4 in the number 149?

40 (forty)

- 5) Find two pairs of numbers that multiply to make 12.

$$1 \times 12$$

$$2 \times 6$$

$$3 \times 4$$

Week 1: Day 2

- 1) Complete the number sentences.

$$21 + 29 = \underline{\quad}$$

$$15 + 15 = \underline{\quad}$$

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- 2) Write down the first five multiples of 5.

-
- 3) Which is the largest number?

101

110

1001

-
- 4) What is the value of the 3 in the number 2382?

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- 5) Find two pairs of numbers that multiply to make 35.

$$\underline{\quad} \times \underline{\quad} = 35$$

$$\underline{\quad} \times \underline{\quad} = 35$$

Week 1: Day 2 Answers

- 1) Complete the number sentences.

$$21 + 29 = \underline{50}$$

$$15 + 15 = \underline{30}$$

-
- 2) Write down the first five multiples of 5.

5, 10, 15, 20, 25

-
- 3) Which is the largest number?

101

110

1001

-
- 4) What is the value of the 3 in the number 2382?

300 (three hundred)

-
- 5) Find two pairs of numbers that multiply to make 35.

$$1 \times 35$$

$$5 \times 7$$

Week 1: Day 3

- 1) Complete the number sentences.

$$20 - \underline{\quad} = 6$$

$$\underline{\quad} - 7 = 33$$

- 2) Write down the first five multiples of 7.

- 3) Which is the smallest number?

11.4

1.03

1.41

- 4) What is the value of the 5 in the number 12.5?

- 5) Find two pairs of numbers that multiply to make 56.

$$\underline{\quad} \times \underline{\quad} = 56$$

$$\underline{\quad} \times \underline{\quad} = 56$$

Week 1: Day 3 Answers

- 1) Complete the number sentences.

$$20 - \underline{14} = 6$$

$$\underline{40} - 7 = 33$$

- 2) Write down the first five multiples of 7.

7, 14, 21, 28, 35

- 3) Which is the smallest number?

11.4

1.03

1.41

- 4) What is the value of the 5 in the number 12.5?

0.5 (five tenths)

- 5) Find two pairs of numbers that multiply to make 56.

$$1 \times 56$$

$$2 \times 28$$

$$4 \times 14$$

$$7 \times 8$$

Week 1: Day 4

- 1) Complete the number sentences.

$$\underline{\quad} - 18 = 32$$

$$14 + \underline{\quad} = 70$$

-
- 2) Write down the first five multiples of 12.

-
- 3) Which is the largest number?

2304

2430

2340

-
- 4) What is the value of the 8 in the number 80317?

-
- 5) Find two pairs of numbers that multiply to make 81.

$$\underline{\quad} \times \underline{\quad} = 81$$

$$\underline{\quad} \times \underline{\quad} = 81$$

Week 1: Day 4 Answers

- 1) Complete the number sentences.

$$\underline{50} - 18 = 32$$

$$14 + \underline{56} = 70$$

- 2) Write down the first five multiples of 12.

12, 24, 36, 48, 60

- 3) Which is the largest number?

2304

2430

2340

- 4) What is the value of the 8 in the number 80317?

80000 (eighty thousand)

- 5) Find two pairs of numbers that multiply to make 81.

$$1 \times 81$$

$$3 \times 27$$

$$9 \times 9$$

Week 1: Day 5

- 1) Complete the number sentences.

$$40 - \underline{\quad} = 29$$

$$\underline{\quad} + 15 = 80$$

- 2) Write down the first five multiples of 15.

- 3) Which is the smallest number?

0.0021

0.011

0.0012

- 4) What is the value of the 7 in the number 0.67?

- 5) Find two pairs of numbers that multiply to make 84.

$$\underline{\quad} \times \underline{\quad} = 84$$

$$\underline{\quad} \times \underline{\quad} = 84$$

Week 1: Day 5 Answers

- 1) Complete the number sentences.

$$40 - \underline{11} = 29$$

$$\underline{65} + 15 = 80$$

- 2) Write down the first five multiples of 15.

15, 30, 45, 60, 75

- 3) Which is the smallest number?

0.0021

0.011

0.0012

- 4) What is the value of the 7 in the number 0.67?

0.07 (seven hundredths)

- 5) Find two pairs of numbers that multiply to make 84.

$$1 \times 84 \qquad 4 \times 21$$

$$2 \times 42 \qquad 6 \times 14$$

$$3 \times 28 \qquad 7 \times 12$$

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