

Year 7 Term 1- Kemnal Keys

Unit 1 : Number Skills

<ul style="list-style-type: none"> You must use the priority of operations to do calculations. Use BIDMAS: Brackets, Indices (powers), Division and Multiplication, Addition and Subtraction. 	<ul style="list-style-type: none"> Finding the cube root is the inverse of finding the cube of a number. 3 cubed is 27, and the cube root of 27 is 3. The cube root of 27 is written as $\sqrt[3]{27}$.
<ul style="list-style-type: none"> An approximation is a number that is not exact. It is close enough for it to be useful though. Use approximation to estimate the answer to calculations. \approx means 'approximately equal to'. You can check a subtraction calculation using the inverse operation of addition. In the column method you write the numbers in the calculation in their place value columns. 	<ul style="list-style-type: none"> A multiple of a number is in that number's multiplication table. Here are some multiples of 3 and 4. 3: 3, 6, 9, 12, 15, 18, 21, 24, ... 4: 4, 8, 12, 16, 20, 24, 28, ... A factor is a whole number that will divide exactly into another number. A factor pair is two numbers that multiply together to make a number. Here are the factors of 12 and 16. 12: 1, 2, 3, 4, 6, 12. 16: 1, 2, 4, 8, 16.
<ul style="list-style-type: none"> You can check a division calculation using the inverse operation of multiplication. 	<ul style="list-style-type: none"> Digits after the decimal point represent fractions. 0.1 = 1/10 = 1 tenth 0.01 = 1/100 = 1 hundredth, 0.001 = 1/1000 = 1 thousandth, etc.
<ul style="list-style-type: none"> To round an amount to the nearest pound (£), look at the pence. On a calculator, be sure of place value. 2.05 = £2.05 and 2.5 = £2.50 	<ul style="list-style-type: none"> For rounding to the nearest whole number, look at the tenths. <ul style="list-style-type: none"> 5 tenths and above round up. 4 tenths and below round down.
<ul style="list-style-type: none"> The > symbol means greater than. The < symbol means less than. 	<ul style="list-style-type: none"> A number rounded to 1 decimal place (1 d.p.) has only one digit after the decimal point. For rounding to 1 decimal place, look at the hundredths. <ul style="list-style-type: none"> 5 hundredths and above round up. 4 hundredths and below round down.
<ul style="list-style-type: none"> 4 + - 1 is 4 add negative 1. You are adding a negative number. 4 - + 1 is 4 subtract positive 1. You are subtracting a positive number. Both calculations give the same answer. 	<ul style="list-style-type: none"> Numbers in ascending order go from smallest to largest, Numbers in descending order go from largest to smallest.

Quiz Time

Week 1 Quiz

1. Write the definitions for **BIDMAS**.
2. How can you check a subtraction operation?
3. What is an approximation?
4. When doing calculations, do you perform addition or multiplication first?
5. In the column method, you write numbers in their ____ value column.

Week 4 Quiz

1. What is the inverse of finding the square root of a number?
2. When doing calculations, do you perform division or addition first?
3. What is the inverse of finding the cube of a number?
4. Round 599 to the nearest hundred.
5. How do you write the cube root of 64?

Week 2 Quiz

1. What do you need to look at to round an amount to the nearest pound (£)?
2. Round 4999 to the nearest thousand.
3. How can you check a division calculation?
4. When doing calculations, do you perform division or subtraction first?
5. The $>$ symbol means ____ than.

Week 5 Quiz

1. What is a multiple? Give some examples of a multiple of 3.
2. A factor is a whole number that will ____ (complete the sentence).
3. Which symbol means greater than?
4. How do you find a square of a number?
5. In the number 1234, what is the place value of the 1?

Week 3 Quiz

1. What is the difference between $5 + -3$ and $5 - +3$?
2. The $<$ symbol means ____ than.
3. Do you perform calculations in brackets or multiplications first?
4. What does the \approx symbol mean?
5. In the number 1234, what is the place value of the 3?

Week 6 Quiz

1. What is a factor pair?
2. What fraction does 0.01 represent?
3. If you have 3 tenths, do you round up or down to the nearest unit?
4. Numbers in _____ order go from smallest to largest?
5. Give some examples of a multiple of 4.