

## Addition & Subtraction:

1. Partitioning & Recombining
2. Find 100 & 1000 more or less than a given number
3. Adding & Subtracting Multiples of 10
4. What must be added to any 3- or 4-digit number to make the next multiple of 100 or 1000
5. Add or Subtract 3-Digit Multiples of 10

## Example

$$9378 = 9000 + ? + 70 + 8$$

$$2736 - 100 = ?$$

$$? - 60 = 865$$

$$1472 + ? = 2000$$

$$460 + 710 = ?$$

## Multiplication & Division:

1. Multiply integers by 10,100 & 1000
2. Divide integers by 10,100 & 1000
3. Doubles of multiples of 10 & 100 & corresponding halves
4. Multiply pairs of multiples of 10 & 100
5. Divide multiples of 100 by a multiple of 10 or 100
6. Multiply 2-digit numbers by 5,20,25 or 50
7. Know square numbers up to 12x (including multiples of 10) & cube numbers up to 5x
8. Order of Operations: BIDMAS

$$234 \times ? = 23400$$

$$67000 \div 1000 = ?$$

$$170 \div 2 = ?$$

$$40 \times 300 = ?$$

$$1800 \div 30 = ?$$

$$32 \times 25 = ?$$

$$?^2 = 64$$

$$10 + 2 \times 4 = ?$$

## Fractions:

1. Pairs of fractions that total 1
2. Multiply & Divide Fractions
3. Fractions of Amounts

$$1/5 + ? = 1$$

$$1/3 \div 4 = ?$$

$$5/8 \text{ of } 24 = ?$$

## Decimals:

1. Multiply decimals by 10,100 or 1000
2. Divide decimals by 10,100 or 1000
3. Multiply tenths by single digits & multiples of 10 & 100
4. Multiply & divide 2-digit decimals
5. What must be added to a decimal to make the next whole number
6. Partitioning & recombining decimals
7. Add & subtract decimals
8. Double & halve decimals with units & tenths
9. Convert decimals to fractions

$$34.56 \times ? = 3456$$

$$6234 \div 1000 = 6.234$$

$$0.7 \times 8 = ?$$

$$8.1 \div 9 = ?$$

$$2.36 + ? = 3$$

$$4.57 = 4 + ? + 0.07$$

$$3.8 - 1.5 = ?$$

$$1.4 \times 2 = ?$$

$$0.8 = ?/10$$

## Percentages:

1. Percentage of an amount: 1% & 10%
2. Percentage of an amount: Multiples of 1% (up to 9) & 10%
3. Percentage of an amount: 25% & 99%
4. Convert Fractions & Decimals to Percentages

$$1\% \text{ of } ? = 30$$

$$40\% \text{ of } 200 = ?$$

$$99\% \text{ of } 500 = ?$$

$$3/5 = ?\%$$

## Converting Units:

1. Convert between different units of metric measure (including between miles and km)

$$9.5 \text{ km} = ? \text{ m}$$