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| **Year**  | **Stage 2 (Years 3 & 4) and Stage 3 (Years 5 & 6) Maths Facts** |
| **Stage 3** | **Prime and Composite Numbers** |
|  | A **prime number** is a number that has only two factors- itself and one, e.g. 2, 3, 5, 7 etc. A **composite number** is a number that has more than two e.g. 4, 6, 8, 9, 10 etc. |
| **Stage 2 & 3** | **Squares and Square Roots** |
|  | 1²= 12²=43²=94²=165²=25 | 6²=367²=498²=649²=8110²=100 | √9= 3√16=4√64=8√81=9√100=10 |
| **Stage 2 & 3** | **Mental Computation** |
|  |  |  |  |
| **Stage 2 & 3** | **Decimals** |
|  | Examples of the types of questions that may be asked: | 1/10 = 0.1¼ = 0.25½ = 0.5¾ = 0.751/5 = 2/10 =0.2  | 1/ 100 = 0.0157/ 100 = 0.57163/100 = 1.632/1000 = 0.002179/ 1000 = 0.179 |
| **Stage 2 & 3** | **Symbols** |
|  | x = multiplication>= is greater than<= is less than | a/b a= numeratora/b b= denominator |  |
| **Stage 2 & 3** | **Number combinations (using knowledge of number strategies to solve quickly in your head)** |
|  | Examples of the types of questions that may be asked:  | 36 + 42 = 30+40+6+2  = 70 + 8 = 78 |  |
| **Stage 2 & 3** | **Metric Symbols** |
|  | **HINT:** Kilo= thousand, Centi= hundred**,** Milli- thousand |
|  | ml= millilitrel=litreg=gramt=tonnekg=kilogramcm=centimetre | m=metrekm=kilometrecm²= square centimetrekm/h=kilometres per hourmin=minutes |  |
| **Stage 2 & 3** | **Measurement conversions** |
|  | 1000mm=1m100cm=1m1000=1km10mm=1cm | 1000g=1kg1000kg=1tonne | 1000ml=1 litre1000litres= 1 kilolitre |
| **Stage 2 & 3** | **Time** |
|  | 60seconds=1 minute60minutes=1hour24hours=1 day7days=1 week | 4 weeks= 1 month52 weeks= 1 year10 years= 1 decade12 months= 1 year | 365 days= 1 year366 days= 1 leap year10 decades or 100 years=1 century  |
| **Stage 2 & 3** | **Seasons** |
|  | **Spring-** September, October, November**Summer-** December, January, February**Autumn-** March, April, May**Winter-** June, July, August |
| **Stage 2 & 3** | **Area and Perimeter** |
|  | **Area – square or rectangle****Area =** length x breadth | **Perimeter- square or rectangle****Perimeter=** sum of the sides.  |  |
| **Stage 3** | **Parts of a circle** |
|  | http://t3.gstatic.com/images?q=tbn:ANd9GcSIzI9xxG-9UYEPh1sUmk7GyMApqJOB9Fy23CMDqRHRkMHSSOKJ |  | http://t1.gstatic.com/images?q=tbn:ANd9GcQpirydYLPqTHOy-o8sjidPezQy1qr6t1EUKR8wwwl3RAH4usYvIA |
| **Stage 3** | **Types of angles** |
|  | http://www.mathsisfun.com/geometry/images/angle-types.gifLess than 90 90 degrees between 90 180 degrees greater than 180 360 degreesdegrees and 180 degrees degrees |

\*\* Questions will vary and include – identifying/recognising, labelling/naming, writing numerals in word/number form, number sequences, missing values, number problems, comparisons/identifying measurements, combinations of operations.

We challenge you to keep testing your knowledge of the facts above by practising some questions/problems based on them to prepare for the Maths Championships.

