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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= 1  2²=4  3²=9  4²=16  5²=25 | | 6²=36  7²=49  8²=64  9²=81  10²=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 = 0.1  ¼ = 0.25  ½ = 0.5  ¾ = 0.75  1/5 = 2/10 =0.2 | 1/ 100 = 0.01  57/ 100 = 0.57  163/100 = 1.63  2/1000 = 0.002  179/ 1000 = 0.179 |
| **Stage 2 & 3** | **Symbols** | | | |
|  | x = multiplication  >= is greater than  <= is less than | | a/b a= numerator  a/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= millilitre  l=litre  g=gram  t=tonne  kg=kilogram  cm=centimetre | | m=metre  km=kilometre  cm²= square centimetre  km/h=kilometres per hour  min=minutes |  |
| **Stage 2 & 3** | **Measurement conversions** | | | |
|  | 1000mm=1m  100cm=1m  1000=1km  10mm=1cm | | 1000g=1kg  1000kg=1tonne | 1000ml=1 litre  1000litres= 1 kilolitre |
| **Stage 2 & 3** | **Time** | | | |
|  | 60seconds=1 minute  60minutes=1hour  24hours=1 day  7days=1 week | | 4 weeks= 1 month  52 weeks= 1 year  10 years= 1 decade  12 months= 1 year | 365 days= 1 year  366 days= 1 leap year  10 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://www.google.com.au/imgres?imgurl=http://upload.wikimedia.org/wikipedia/commons/thumb/4/4f/Circle_slices.svg/220px-Circle_slices.svg.png&imgrefurl=http://en.wikipedia.org/wiki/Circle&h=220&w=220&tbnid=kTdfkZ0GDrlcGM:&zoom=1&q=parts+of+a+circle&docid=Oau11p8zfrVs-M&ei=WaTSVNTBD8PTmAXMiIDoBQ&tbm=isch&ved=0CGgQMyg9MD0) | |  | [http://t1.gstatic.com/images?q=tbn:ANd9GcQpirydYLPqTHOy-o8sjidPezQy1qr6t1EUKR8wwwl3RAH4usYvIA](http://www.google.com.au/imgres?imgurl=http://www.achrnews.com/NEWS/2006/46/Files/Images/Meyer-Math%20for%20the%20Tech%2017.jpg&imgrefurl=http://www.achrnews.com/articles/103339-math-for-the-technician-using-shapes-and-angles&h=163&w=158&tbnid=CPExFnwSFCxQ2M:&zoom=1&q=parts+of+a+circle&docid=3mQHqpQNba4hbM&ei=WaTSVNTBD8PTmAXMiIDoBQ&tbm=isch&ved=0CFIQMygnMCc) |
| **Stage 3** | **Types of angles** | | | |
|  | | [http://www.mathsisfun.com/geometry/images/angle-types.gif](http://www.google.com.au/url?sa=i&rct=j&q=types+of+angles+and+sizes&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.mathsisfun.com/angles.html&ei=tabSVPLpOcS9mgXXv4G4CA&bvm=bv.85142067,d.dGY&psig=AFQjCNGWfSURWdbMdUwCionrIviMb-wMIw&ust=1423177762102672)  Less than 90 90 degrees between 90 180 degrees greater than 180 360 degrees  degrees 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.

