|  |  |
| --- | --- |
| **Crack the Code** | **Three Simultaneous Equations** |

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | $$x+y+z=7$$$$2x+3y+z=17$$$$x+4y+3z=21$$ | **B** | $$x+2y+z=12$$$$x+3y+4z=29$$$$2x+y+z=13$$ |
| **C** | $$x+y-z=8$$$$2x-y+3z=12$$$$2x+2y-3z=15$$ | **D** | $$x-y+2z=13$$$$3x+y+z=10$$$$2x-3y-z=2$$ |
| **E** | $$4x+3y+z=6$$$$2x+y-2z=3$$$$x+4y-z=19$$ | **F** | $$2x+y+z=15$$$$6x+4y-2z=35$$$$4x-2y+5z=2$$ |
| **G** | $$3x+y-z=16.5$$$$2x+3y-2z=0$$$$x+4y+4z=30$$ | **H** | $$2x+y+z=14$$$$x-y+3z=24$$$$5x+2y+z=15$$ |
| **I** | $$2x-y+5z=31$$$$3x+4y-2z=43$$$$x-2y+7z=26$$ | **J** | $$3x+2y+3z=27$$$$2x+3y-4z=17$$$$6x+5y-2z=38$$ |
| To get the three-digit code, add together all your values of $x$, $y$ and $z$. |