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|  | Solving Quadratics by factorising |
|  | ***Predict*** what you think the answer will be and then ***work it out***. |
|  | **A** |  | **B** |  | **C** |  |  |
|  | 1) | $$\left(x+2\right)\left(x-3\right)=0$$ |  | 1) | $$x^{2}-x-6=0$$ |  | 1) | $$2x^{2}-8x+6=0$$ |  |  |
|  |
|  | 2) | $$\left(x-3\right)\left(x+2\right)=0$$ |  | 2) | $$x^{2}+x-6=0$$ |  | 2) | $$2x^{2}-7x+6=0$$ |  |  |
|  | 3) | $$\left(x+3\right)\left(x-2\right)=0$$ |  | 3) | $$\left(x+1\right)\left(x-6\right)=0$$ |  | 3) | $$4x^{2}-10x+6=0$$ |  |  |
|  | 4) | $$\left(x-3\right)\left(x-2\right)=0$$ |  | 4) | $$x^{2}+x-20=0$$ |  | 4) | $$2x^{2}-5x+3=0$$ |  |  |
|  | 5) | $$\left(x-3\right)\left(2x-2\right)=0$$ |  | 5) | $$x^{2}-x-20=0$$ |  | 5) | $$x^{2}-10x+7=0$$ |  |  |
|  | 6) | $$\left(2x-3\right)\left(x-2\right)=0$$ |  | 6) | $$\left(x-1\right)\left(x-20\right)=0$$ |  | 6) | $$6x^{2}-10x+4=0$$ |  |  |
|  | 7) | $$\left(2x-3\right)\left(2x-2\right)=0$$ |  | 7) | $$\left(2x-1\right)\left(2x-20\right)=0$$ |  | 7) | $$3x^{2}-5x+2=0$$ |  |  |
|  | 8) | $$\left(3x-2\right)\left(2x-2\right)=0$$ |  | 8) | $$x^{2}-5x+6=0$$ |  | 8) | $$x^{2}-3x-4=0$$ |  |  |
|  | 9) | $$\left(3x+2\right)\left(2x-2\right)=0$$ |  | 9) | $$x^{2}-7x+6=0$$ |  | 9) | $$6x^{2}-2x-4=0$$ |  |  |
|  | 10) | $$\left(\frac{1}{2}x+2\right)\left(2x-2\right)=0$$ |  | 10) | $$x^{2}+7x+6=0$$ |  | 10) | $$12x^{2}-36x-48=0$$ |  |  |

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| Solving Quadratics by factorising ANSWERS |
| ***Predict*** what you think the answer will be and then ***work it out***. |
| **A** |  | **B** |  | **C** |
| 1) | $$x=-2, x=3$$ |  | 1) | $$x=-2, x=3$$ |  | 1) | $$x=3, x=1$$ |
|  |
| 2) | $$x=3,x=-2$$ |  | 2) | $$x=-3, x=2$$ |  | 2) | $$x=\frac{2}{3},x=1$$ |
| 3) | $$x=-3, x=2$$ |  | 3) | $$x=-1, x=6$$ |  | 3) | $$x=\frac{3}{2},x=1$$ |
| 4) | $$x=3,x=2$$ |  | 4) | $$x=-5, x=4$$ |  | 4) | $$x=-\frac{1}{2},x=3$$ |
| 5) | $$x=3,x=1$$ |  | 5) | $$x=-4, x=5$$ |  | 5) | $$x=5, x=2$$ |
| 6) | $$x=\frac{3}{2},x=2$$ |  | 6) | $$x=1, x=20$$ |  | 6) | $$x=\frac{2}{3},x=1$$ |
| 7) | $$x=\frac{3}{2},x=1$$ |  | 7) | $$x=-\frac{1}{2} x=10$$ |  | 7) | $$x=\frac{2}{3},x=1$$ |
| 8) | $$x=\frac{2}{3},x=1$$ |  | 8) | $$x=3, x=2$$ |  | 8) | $$x=1,x=-4$$ |
| 9) | $$x=-\frac{2}{3},x=1$$ |  | 9) | $$x=6, x=1$$ |  | 9) | $$x=1,x=-4$$ |
| 10) | $$x=-4,x=2$$ |  | 10) | $$x=-6, x=-1$$ |  | 10) | $$x=1,x=-4$$ |