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|  | Factorising Expressions |
|  | ***Predict*** what you think the answer will be and then ***work it out***.  |
|  | **A** |  | **B**  |  | **C**  |  |  |
|  | 1) | $$6x+20$$ |  | 1) | $$30x^{2}-9xy$$ |  | 1) | $$3x+3y+3z$$ |  |  |
|  |
|  | 2) | $$20+6x$$ |  | 2) | $$30x^{2}y-9xy$$ |  | 2) | $$3x+6y+3z$$ |  |  |
|  | 3) | $$6x-20$$ |  | 3) | $$30x^{2}y^{2}-9xy$$ |  | 3) | $$3x+6y+15z$$ |  |  |
|  | 4) | $$12x-30$$ |  | 4) | $$50-45g$$ |  | 4) | $$21x^{2}y^{2}-35xy^{3}$$ |  |  |
|  | 5) | $$12x-60$$ |  | 5) | $$30x^{2}y^{2}-9x^{2}y$$ |  | 5) | $$3x+6xy+15z$$ |  |  |
|  | 6) | $$6x-30$$ |  | 6) | $$30x^{4}y^{2}-9x^{2}y$$ |  | 6) | $$3x+6xy+15xz$$ |  |  |
|  | 7) | $$30x-6$$ |  | 7) | $$30x^{4}y^{2}+9x^{2}y$$ |  | 7) | $$3x^{2}+6xy+15xz$$ |  |  |
|  | 8) | $$30x-9$$ |  | 8) | $$x^{4}y^{2}+x^{2}y$$ |  | 8) | $$x^{2}+xy+xz$$ |  |  |
|  | 9) | $$30x-9x$$ |  | 9) | $$x^{4}y^{2}-x^{2}y$$ |  | 9) | $$45f+81$$ |  |  |
|  | 10) | $$30x^{2}-9x$$ |  | 10) | $$21v-35$$ |  | 10) | $$7w+9xy+15xz$$ |  |  |

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| Factorising Expressions ANSWERS |
| ***Predict*** what you think the answer will be and then ***work it out***. |
| **A** |  | **B** |  | **C** |
| 1) | $$2(3x+10)$$ |  | 1) | $$3x(10x-3y)$$ |  | 1) | $$3(x+y+z)$$ |
|  |
| 2) | $$2(10+3x)$$ |  | 2) | $$3xy(10x-3)$$ |  | 2) | $$3(x+2y+z)$$ |
| 3) | $$2(3x-10)$$ |  | 3) | $$3xy(10xy-3)$$ |  | 3) | $$3(x+2y+5z)$$ |
| 4) | $$6(2x-5)$$ |  | 4) | $$5(10-9g)$$ |  | 4) | $$7xy^{2}(3x-5y)$$ |
| 5) | $$12(x-5)$$ |  | 5) | $$3x^{2}y(10y-3)$$ |  | 5) | $$3(x+2xy+5z)$$ |
| 6) | $$6(x-5)$$ |  | 6) | $$3x^{2}y(10x^{2}-3)$$ |  | 6) | $$3x(1+2y+5z)$$ |
| 7) | $$6(5x-1)$$ |  | 7) | $$3x^{2}y(10x^{2}+3)$$ |  | 7) | $$3x(x+2y+5z)$$ |
| 8) | $$3(10x-3)$$ |  | 8) | $$x^{2}y(x^{2}y+1)$$ |  | 8) | $$x(x+y+z)$$ |
| 9) | $$3x(10-3)$$ |  | 9) | $$x^{2}y(x^{2}y-1)$$ |  | 9) | $$9(5f+9)$$ |
| 10) | $$3x(10x-3)$$ |  | 10) | $$7(3v-5)$$ |  | 10) | $$No common factors$$ |