

Factorising

Answer the first question in each row for each of the following questions. If you feel confident then move onto the next question. If you feel like you need more practice then move onto the following questions in that row. The answers are jumbled up at the bottom, cross them off to make sure you are on track!

MUST



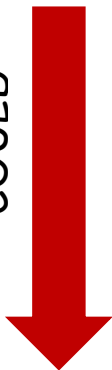
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|-----------------|--------------|--------------|--------------|
| 1. a) $2x + 10$ | b) $6y + 15$ | c) $5p - 15$ | d) $6a + 9$ |
| 2. a) $2g + 4$ | b) $3t + 9$ | c) $3e - 6$ | d) $4d - 16$ |
| 3. a) $7r + 42$ | b) $6c - 30$ | c) $6w + 3$ | d) $8g + 20$ |

SHOULD



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|--------------------|------------------|-----------------|----------------|
| 4. a) $f^2 - 6f$ | b) $c^2 - 8c$ | c) $d^2 - 45d$ | d) $e^2 + 5e$ |
| 5. a) $6g^2 + 3g$ | b) $12h^2 - 24h$ | c) $4h^2 + 6h$ | d) $2f^2 + 6f$ |
| 6. a) $5h^2 + 10h$ | b) $5g^2 + 20g$ | c) $6c^2 - 30c$ | d) $3e^2 - 6e$ |

COULD



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|----------------------|---------------------|--------------------|----------------------|
| 7. a) $4d^2 - 16d^3$ | b) $2d^2 - 4d^3$ | c) $3d^3 - 9d^2$ | d) $5d^4 - 15d^2$ |
| 8. a) $9d^2 - 6d^3$ | b) $12c^5 - 8c^2$ | c) $18d^3 - 45d^2$ | d) $17e^2 + 51e^3$ |
| 9. a) $3mn + 6m$ | b) $7m^2n + 21mn^2$ | c) $12hp - 24h^2p$ | d) $3e^4d - 6e^2d^2$ |

Answers

- | | | | | | |
|--------------|----------------|--------------|---------------|--------------|-----------------|
| $2(x+5)$ | $4c^2(3c^3-2)$ | $4(d-4)$ | $e(e+5)$ | $3e(e-2)$ | $3d^2(d-3)$ |
| $5g(g+4)$ | $5h(h+2)$ | $c(c-8)$ | $f(f-6)$ | $6c(c-5)$ | $4d^2(1-4d)$ |
| $3(t+3)$ | $5(p-3)$ | $3d^2(3-2d)$ | $7mn(m+3n)$ | $9d^2(2d-5)$ | $2(g+2)$ |
| $3(e-2)$ | $3(2w+1)$ | $12hp(1-2h)$ | $17e^2(1+3d)$ | $4(2g+5)$ | $7(r+6)$ |
| $3m(n+2)$ | $5d^2(d^2-3)$ | $3(3y+5)$ | $6(c-5)$ | $3g(2g+1)$ | $12h(h-2)$ |
| $2d^2(1-2d)$ | $2f(f+3)$ | $2h(2h+3)$ | $d(d-45)$ | $3(2a+3)$ | $3e^2d(e^2-2d)$ |



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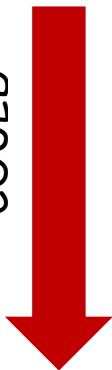
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| $2d^2(1-2d)$ | $2f(f+3)$ | $2h(2h+3)$ | $d(d-45)$ | $3(2a+3)$ | $3e^2d(e^2-2d)$ |

