

8, 10, 6, 4, 2

2.  $t^2 + 9t + 14$   $\begin{matrix} 1, 14 \\ 2, 7 \end{matrix}$   
 $(t + 2)(t + 7)$   
 $t^2 + 7t + 2t + 14$   
 $t^2 + 9t + 14 \checkmark$

4.  $u^2 - 10u + 9$   $\begin{matrix} 1, 9 \\ 3, 3 \end{matrix}$   
 $(u - 1)(u - 9)$   
 $u^2 - 9u - u + 9$   
 $u^2 - 10u + 9 \checkmark$

6.  $y^2 - 5y + 6$   $\begin{matrix} 1, 6 \\ 2, 3 \end{matrix}$   
 $(y - 6)(y - 1)$   
 $y^2 - y - 6y + 6$   
 $y^2 - 7y + 6 \times$   
 $(y - 2)(y - 3)$   
 $y^2 - 3y - 2y + 6$   
 $y^2 - 5y + 6 \checkmark$

8.  $h^2 - 10h + 24$   $\begin{matrix} 1, 24 \\ 2, 12 \\ 3, 8 \\ 4, 6 \\ 6, 4 \end{matrix}$   
 $\rightarrow (h - 4)(h - 6)$   
 $h^2 - 6h - 4h + 24$   
 $h^2 - 10h + 24 \checkmark$

10.  $z^2 - 9z + 12$   $\begin{matrix} 1, 12 \\ 2, 6 \\ 3, 4 \end{matrix}$   
 ~~$(z - \dots)(z - \dots)$~~   
 prime

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Factor

9.  $s^2 - 20s + 36$

$$\begin{aligned} &3 - 2z - z^2 \\ &(1 - \underline{z})(3 + \underline{z}) \\ &3 + z - 3z - z^2 \\ &3 - 2z - z^2 \end{aligned}$$

$$2m^2 - m - 1$$

$$(2m + \underline{1})(m - \underline{1})$$

$$2m^2 - 2m + m - 1$$

$$2m^2 - m - 1$$

.

$$5x^2 + 4x - 1$$
$$6c^2 - 5c - 1$$