

Name: \_\_\_\_\_

## Completing the Square

DS2

Solve each quadratic equation by completing the square.

1)  $\left(\frac{d-1}{9}\right) - 2\left(\frac{d-1}{9}\right)^2 + 6 = 0$

2)  $28 = 3.5(1.8 + z)^2 - 7(1.8 + z)$

3)  $5 + (11 + h)^2 \cdot$

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$\frac{8}{5}m) - 16 = 0$

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5)  $5\left(\frac{1}{2s}\right)^2 + 2\left(\frac{1}{2}\right)$

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$\sqrt{2}g) - 16 = 0$

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## Answer key

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1)  $\left(\frac{d-1}{9}\right) - 2\left(\frac{d-1}{9}\right)^2 + 6 = 0$

2)  $28 = 3.5(1.8 + z)^2 - 7(1.8 + z)$

$d = -\frac{25}{2}; d =$

$= 2.2$

# PREVIEW

3)  $5 + (11 + h)^2$

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$\left(\frac{8}{5}m\right) - 16 = 0$

$h = -12 \pm 2i$

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$= \frac{5}{4}$

5)  $5\left(\frac{1}{2s}\right)^2 + 2\left(\frac{1}{2}\right)$

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$(\sqrt{2}g) - 16 = 0$

$s = -\frac{1}{2}; s = \frac{5}{6}$

$g = -4\sqrt{2}; g = \sqrt{2}$