# Evaluate and solve

**Name** _____ **Date** _____

Give exact answers where possible.

| Problem | Answer | Problem | Answer |
|---|---|---|---|
| 1. $\log_2 32$ | | 4. Solve $3^x = 81$ | |
| 2. $\log_{10} 0.001$ | | 5. Solve $2^x = 40$ | |
| 3. $\ln e^4$ | | 6. Solve $\log_5(x) = 3$ | |

## Notes

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# Answer key — Evaluate and solve

| # | Problem | Answer |
|---|---|---|
| 1 | $\log_2 32$ | 5 |
| 2 | $\log_{10} 0.001$ | −3 |
| 3 | $\ln e^4$ | 4 |
| 4 | Solve 3^x = 81 | x = 4 |
| 5 | Solve 2^x = 40 | x = ln 40 / ln 2 ≈ 5.32 |
| 6 | Solve $\log_5(x) = 3$ | x = 125 |

## Notes

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