

1. Simplify: $\frac{3- -4 }{ 4 }$	6. Simplify: $\frac{x}{9} \cdot \frac{1}{6}$	1. _____
2. [Jun 1999, #11] The expression $2^3 \cdot 4^2$ is equivalent to (1) 2^7 (3) 8^5 (2) 2^{12} (4) 8^6	7. Evaluate $3x^2 - 5x + 6$ if $x = -4$.	2. _____
3. [Aug 1999, #4] Which expression is equivalent to 6.02×10^{23} ? (1) 0.602×10^{21} (3) 602×10^{21} (2) 60.2×10^{21} (4) 6020×10^{21}	8. Evaluate $(2p + n)^2$ if $p = -4$ and $n = 1$.	3. _____
4. Evaluate $\frac{5w^2}{ -2-p }$ if $w = -4$ and $p = -1$.	9. [Jun 2000, #3] Which number is rational? (1) π (3) $\sqrt{7}$ (2) $\frac{5}{4}$ (4) $\sqrt{\frac{3}{2}}$	4. _____
5. [Aug 1999, #2] The expression $\sqrt{50}$ can be simplified to (1) $5\sqrt{2}$ (3) $2\sqrt{25}$ (2) $5\sqrt{10}$ (4) $25\sqrt{2}$	10. Simplify: $\frac{2x}{3} \div \frac{1}{3}$	5. _____
		6. _____
		7. _____
		8. _____
		9. _____
		10. _____

<p>11. [Jun 2000, #20] What is the value of 3^{-2}?</p> <p>(1) $\frac{1}{9}$ (3) 9 (2) $-\frac{1}{9}$ (4) -9</p>	<p>16. Simplify: $\frac{1}{7} \div \frac{d}{8}$</p>	<p>11. _____</p>
<p>12. [Jan 2003, #4] In which list are the numbers in order from least to greatest?</p> <p>(1) 3.2, π, $3\frac{1}{3}$, $\sqrt{3}$ (3) $\sqrt{3}$, π, 3.2, $3\frac{1}{3}$ (2) $\sqrt{3}$, 3.2, π, $3\frac{1}{3}$ (4) 3.2, $3\frac{1}{3}$, $\sqrt{3}$, π</p>	<p>If $x = -1$ and $y = 2$, find the value of</p> <p>17. $\frac{5y^2 - 2x^3}{4y - x}$.</p>	<p>12. _____</p> <p>13. _____</p> <p>14. _____</p>
<p>13. Solve: $\frac{2}{x} = \frac{5}{4}$</p>	<p>18. [Aug 2000, #16] The expression $2\sqrt{50} - \sqrt{2}$ is equivalent to</p> <p>(1) $2\sqrt{48}$ (3) $9\sqrt{2}$ (2) 10 (4) $49\sqrt{2}$</p>	<p>15. _____</p> <p>16. _____</p>
<p>14. Simplify: $\frac{7}{12} - \frac{6}{7}$</p>	<p>19. Evaluate $-2(xy)^3$ if $x = -2$ and $y = -1$.</p>	<p>17. _____</p> <p>18. _____</p>
<p>15. [Jun 2003, #3] Which expression represents an irrational number?</p> <p>(1) $\sqrt{2}$ (3) 0.17 (2) $\frac{1}{2}$ (4) 0</p>	<p>20. Evaluate $\frac{4}{3}(6a^2 + 3b)$ if $a = 2$ and $b = -2$.</p>	<p>19. _____</p> <p>20. _____</p>