

<p>Which expression represents an irrational number?</p> <p>1. (1) $\frac{1}{4}$ (3) $\sqrt{16}$ (2) 0 (4) $\sqrt{7}$</p>	<p>The expression $\frac{x+3}{2x-2}$ is undefined</p> <p>6. when x is equal to (1) 1 (3) -3 (2) 0 (4) -1</p>	<p>1. _____ 2. _____</p>
<p>When $18x^4 - 12x^3 + 6x^2$ is divided by $6x^2$, the quotient is</p> <p>2. (1) $3x^2 - 2x + 1$ (3) $18x^4 - 12x^3 + 1$ (2) $12x^2 - 6x + 1$ (4) $3x^2 - 12x^3 + 6x^2$</p>	<p>7. Simplify: $\frac{9}{2} \cdot (-4)$</p>	<p>3. _____ 4. _____</p>
<p>3. Express as a single fraction: $\frac{a}{4} - \frac{5}{3}$</p>	<p>What is the solution set of the equation $x^2 - x - 6 = 0$?</p> <p>8. (1) $\{3, -2\}$ (3) $\{-6, 1\}$ (2) $\{-3, -2\}$ (4) $\{3, 2\}$</p>	<p>5. _____ 6. _____</p>
<p>4. Evaluate $\frac{8-2x}{(-2x)^3}$ if $x = -1$.</p>	<p>9. If $a = -3$ and $b = 4$, what is the value of $a^2b - (a+b)$?</p>	<p>7. _____ 8. _____</p>
<p>What is the quotient of $\frac{6\sqrt{48}}{3\sqrt{3}}$ expressed in simplest form?</p> <p>5. (1) 32 (3) 8 (2) 12 (4) 4</p>	<p>10. Simplify: $5 \div \frac{1}{2}$</p>	<p>9. _____ 10. _____</p>

<p>11. Simplify: $\frac{3}{7} - \frac{2}{4}$</p>	<p>The sum of $\sqrt{12}$ and $\sqrt{75}$ is</p> <p>16. (1) $7\sqrt{3}$ (3) $7\sqrt{6}$ (2) $29\sqrt{3}$ (4) $\sqrt{87}$</p>	<p>11. _____</p> <p>12. _____</p>
<p>12. Solve: $\frac{1}{4} = \frac{5x}{7}$</p>	<p>What is the value of x in the</p> <p>17. proportion $\frac{x-4}{x} = \frac{5}{7}$?</p> <p>(1) -2 (3) -14 (2) 2 (4) 14</p>	<p>13. _____</p> <p>14. _____</p>
<p>Which choice represents the scientific notation for 4.5×10^{-3}?</p> <p>13. (1) 4500 (3) 0.045 (2) 0.450 (4) 0.0045</p>	<p>18. Simplify: $5a - 8b + 17a - 9b$</p>	<p>15. _____</p> <p>16. _____</p>
<p>On a graph, which point is on the line of the equation $2x + 3y = 4$?</p> <p>14. (1) $(-2, 5)$ (3) $(5, -2)$ (2) $(5, 2)$ (4) $(-5, 2)$</p>	<p>19. Simplify: $-\frac{5}{4} + \frac{3}{20}$</p>	<p>17. _____</p> <p>18. _____</p>
<p>15. Simplify: $\left(\frac{9y}{10g}\right)\left(-\frac{2}{5}\right)$</p>	<p>If $k = 15$ and $m = -3$, what is the</p> <p>20. value of $\frac{k+m}{3k-2m^2}$?</p>	<p>19. _____</p> <p>20. _____</p>