

HOMEWORK 9 Term 2 Sheet 8 advanced

<p>1. My last 5 scores were 8, 2, 5, 2, 8. After my next game my average was 4.5. What did I score in that game?</p>	<p>2. Simplify:</p> $\sqrt{5} \times \sqrt{3} =$ $\sqrt{5} \times \sqrt{10} =$ $2\sqrt{3} \times 4\sqrt{3} =$ $\frac{\sqrt{48}}{\sqrt{6}} =$	<p>3.</p> $\begin{array}{r} 1011 \\ \times 111 \\ \hline \\ \hline \end{array}$ <p>Write 100 in binary.</p>
<p>4. In a town of 600, a sample of 20 found 12 redheads. How many redheads ($\pm 5\%$) are in the whole town?</p>	<p>5.</p> $2x + 6x =$ $2x \times 6x =$ $2x \div 6x =$ $2x - 6x =$	<p>6.</p> $36^{\frac{1}{2}} =$ $64^{-\frac{1}{2}} =$ $125^{\frac{1}{3}} =$ $32^{-\frac{2}{5}} =$
<p>7.</p> $(2 \times 10^3) \times (4 \times 10^2) =$ $(9 \times 10^6) \div (3 \times 10^4) =$ $\frac{3.2 \times 10^{-3}}{6.4 \times 10^{-2}} =$	<p>8.</p> $2(3x+1) + 5(x-2)$ $=$ $(x+7)(x-4)$ $=$	<p>9. * 5 people take 9 days to build a boat. Working at the same rate, how many days will it take 12 people to build the boat?</p>