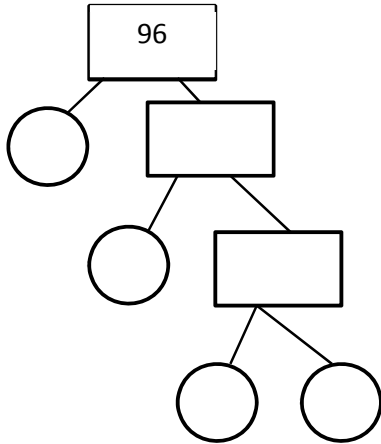


HOMEWORK 7 Term 4 Sheet 7

<p>1. Multiplication</p> $3 \times 6 =$ $4 \times 8 =$ $12 \times 12 =$ $7 \times 11 =$ $5 \times 9 =$ $3 \times 12 =$ $150 \div 10$ $230 \div 1000 =$	<p>2. Factor tree</p> 	<p>3. Integers</p> $5 - 8 =$ $-4 + 5 =$ $6 + (-3) =$ $-10 + (-2) =$ $3 - (-4) =$ $-4 - (-6) =$ $-12 - (-5) =$
<p>4. Substitution</p> <p>a) $a + 7$ $a = 5$</p> <p>b) $3m - 4$ $m = 7$</p> <p>c) $\frac{6c}{4}$ $c = 2$</p> <p>d) $2(x^2 + 1)$ $x = 3$</p>	<p>5. Backtracking</p> <p>a) $2b + 7 = 13$</p> $\square \begin{matrix} \rightarrow \\ \leftarrow \end{matrix} \square \begin{matrix} \rightarrow \\ \leftarrow \end{matrix} \square$ <p>b) $\frac{a}{10} - 6 = 3$</p> $\square \begin{matrix} \rightarrow \\ \leftarrow \end{matrix} \square \begin{matrix} \rightarrow \\ \leftarrow \end{matrix} \square$ <p>c) $\frac{t+8}{4} = 9$</p> $\square \begin{matrix} \rightarrow \\ \leftarrow \end{matrix} \square \begin{matrix} \rightarrow \\ \leftarrow \end{matrix} \square$	<p>6. Solve by inspection</p> <p>a) $y + 8 = 12$ $y =$</p> <p>b) $6s = 30$ $s =$</p> <p>c) $\frac{20}{x} = 5$ $x =$</p> <p>d) $\frac{h}{8} = 6$ $h =$</p> <p>e) $r - 9 = 11$ $r =$</p>
<p>7. Balancing equations – show all working out</p> <p>a) $2e + 1 = 9$</p> <p>b) $6 + 5h = 41$</p> <p>c) $\frac{r-8}{3} = 7$</p> <p>d) $5 + \frac{b}{2} = 9$</p> <p>e) $\frac{x+5}{2} = 6$</p>	<p>8. Balancing three step equations</p> <p>a) $\frac{2t+8}{6} = 5$</p> <p>b) $3(5 + 2u) = 57$</p> <p>c) $(9s + 11) \div 2 = 10$</p> <p>d) $\frac{8+3n}{5} = 4$</p>	<p>9. Pronumeral on both sides</p> <p>a) $4x - 5 = 3x + 7$</p> <p>b) $12x - 4 = 5x + 10$</p> <p>c) $8y + 3 = 5y + 21$</p> <p>d) $10y - 6 = 5y + 19$</p>