

WEEK 2 REVISION

Equations Solve the following:

1. $x + 4 = 10$

2. $x - 3 = 5$

3. $2x + 1 = 9$

4. $3x - 4 = 11$

5. $\frac{1}{x} = 3$

6. $\frac{2}{p} = 4$

7. $\frac{2f}{3} = 10$

8. $\frac{2}{3x} = 4$

9. $3x + 1 = 2x + 8$

10. $4w - 3 = w + 3$

11. $2(t + 3) = 3(t - 1)$

12. $\frac{x}{2} + 4 = 3x - 2$

13. $\frac{1}{c} = \frac{1}{4}$

14. $\frac{2}{e} = \frac{1}{8}$

15. $\frac{1}{g+2} = \frac{3}{9}$

16. $|2x + 3| = 5$

17. $|-x - 7| = 10$

Exponents Simplify the following:

1. $x^3 \times x^5$

2. $p^4 \div p^3$

3. c^0

4. $e^{1/2}$

5. $9^{1/2}$

6. $(xy) \times y$

7. $(g^2)^4$

8. $(e^2 f^3)^2$

9. $\frac{a^2 b^3 \times a^3 c^2}{bc}$

10. $a^{-3} \times b^3 \times a^2 b^{-1}$

11. $y^2 \div (xy)^2 \times x^{-2} y^3$

12. $\frac{2^3 \times 9^{1/2} \times 16^{1/2}}{(2^2)^{1/2}}$

13. $f^2 g \times (f^{-2} \div fg^3)$

14. $x^2 y \times x^{-2} y^{-2} \times y$

15. $\frac{e^{-2} g^{-3} \div e^{-3} g^2}{e^4 g}$

WEEK 2 PRACTICE QUESTIONS

Simplify:

1. $\sqrt{36} - \sqrt{9} + \sqrt{16}$

2. $\sqrt{3} \times \sqrt{6}$

3. $\sqrt{7} \times \sqrt{14}$

4. $\sqrt{4} \times \sqrt{4} - \sqrt{8} \times \sqrt{2}$

5. $\sqrt{2} \times \sqrt{10} + \sqrt{3} \times \sqrt{15}$

6. $3^2 + 2^3$

7. $2^{(2 \times 3)} + 3^{(\sqrt{4})}$

8. $\left(\frac{2}{3}\right)^2 \times \frac{1}{4}$

9. $(-3)^3 + 2^4$

10. $3^2 - 2^3 + 1^{106}$

