

Algebra TEST

Match the following exponential form with the correct expanded form

1) 4^5	<input type="checkbox"/>	<input type="checkbox"/> $B \times B \times B$
2) B^3	<input type="checkbox"/>	<input type="checkbox"/> $5 \times 5 \times 5 \times 5 \times 5$
3) 5^4	<input type="checkbox"/>	<input type="checkbox"/> $4 \times 4 \times 4$
4) B^5	<input type="checkbox"/>	<input type="checkbox"/> 1
5) 6^0	<input type="checkbox"/>	<input type="checkbox"/> $B \times B \times B \times B \times B$
		<input type="checkbox"/> $4 \times 4 \times 4 \times 4 \times 4$

Evaluate each exponent

6) 4^3	<input type="checkbox"/>	7) 15^1	<input type="checkbox"/>	8) 85^0	<input type="checkbox"/>	9) $\frac{W^5}{W^2}$	<input type="checkbox"/>
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Plug and chug ... Evaluate each expression for the given value of the variable

10) $3x - 4$ $x = 5$ 11) $f(x) = 3(x - 2) + 3$ $f(2) =$

12) $\frac{3x - 15}{3}$ $x = 4$ 13) $5P^2 - 30 + 2P$ $P = 5$

Match the expression with its equivalent

14) $5B - 3B - 2 + 7$	<input type="checkbox"/>	<input type="checkbox"/> $2B + 2$
15) $-2B + 12 + 4B - 10$	<input type="checkbox"/>	<input type="checkbox"/> $2B + 5$
16) $2(B - 2) + 3B - 1$	<input type="checkbox"/>	<input type="checkbox"/> $5B - 5$

Solve the following equation or inequality

$$17) G - 5 = 15$$

$$G = \boxed{\hspace{1cm}}$$

$$18) 2R + 15 = 7$$

$$R = \boxed{\hspace{1cm}}$$

$$19) 1 + 3M = 12$$

$$M = \boxed{\hspace{1cm}}$$

$$20) \frac{Y}{5} + -8 = -4$$

$$Y = \boxed{\hspace{1cm}}$$

$$21) P - 4 > 14$$

$$P = \boxed{\hspace{1cm}}$$

$$22) 2A + 10 < 16$$

$$A = \boxed{\hspace{1cm}}$$

23-25

I took my wife out for our anniversary dinner (our anniversary is actually feb 22!). We went to a nice Italian restaurant, Kimberly and I ordered the same dish then at the end of the meal tipped our server \$10.

Write an algebraic expression that would describe our bill

$$\boxed{\hspace{1cm}}$$

Our total bill Tip included was \$85, Write an algebraic equation that you could use to determine the cost of each of our dishes.

$$\boxed{\hspace{1cm}}$$

Solve the equation. How much was my dish?

$$\boxed{\hspace{1cm}}$$