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Exponents and Algebraic Expressions

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85%

Points: 17 out of 20
Duration: 00:19:59
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Statistics by Category

Answers

✔ Correctly answered   ✖ Incorrectly answered   ➡ Missed correct option

All Questions | **17** Correct | **3** Incorrect

Question 1 of 20
Middle School Math

What is the value of a^0?

Correct answer: **B)**
Selected answer: **B)**

     A) 0

✔ **B)** 1

     C) a

     D) -1

Points: 1 out of 1

Question 2 of 20
Middle School Math

$\frac{2}{5} \cdot x^3 \cdot x^{-2}$

Correct answer: **A)**
Selected answer: **A)**

✔ **A)** $\frac{2x}{5}$

     B) $\frac{2}{5} \cdot x^5$

     C) $\frac{2}{5x}$

     D) $\frac{2}{5}x^5$

Points: 1 out of 1

Question 3 of 20

Middle School Math

$(2y^2z)^4$

Correct answer: **D)**
Selected answer: **B)**

    A) $8y^6z^4$

 ✗ **B)** $8y^8z^4$

    C) $16y^6z^4$

 ➡ **D)** $16y^8z^4$

Points: 0 out of 1

Question 4 of 20
Middle School Math

$4^4.4^0 / 4^2$

Correct answer: **C)**
Selected answer: **C)**

    A) 4

    B) 1

 ✓ **C)** 4^2

    D) $1/4$

Points: 1 out of 1

Question 5 of 20
Middle School Math

$(xz)^7.(xyz)^{-3}$

Correct answer: **B)**
Selected answer: **B)**

    A) $1/x^3y^3z^3$

 ✓ **B)** x^4z^4/ y^3

    C) $x^{10}z^{10}/y^3$

    D) $(xyz)^4$

Points: 1 out of 1

Question 6 of 20
Middle School Math

$(xy)^p = x^p.y^p$

Correct answer: **A)**
Selected answer: **A)**

 ✓ **A)** True

    B) False

Points: 1 out of 1

Question 7 of 20
Middle School Math

$(a^m)^n = a^{m+n}$

Correct answer: **B)**
Selected answer: **A)**

✗ **A)** True

➡ **B)** False

Points: 0 out of 1

Question 8 of 20
Middle School Math

$2^0 / 2^0 = 2$

Correct answer: **B)**
Selected answer: **B)**

   A) True

✔ **B)** False

Points: 1 out of 1

Question 9 of 20
Middle School Math

$8^2 = (2^3)^2$

Correct answer: **A)**
Selected answer: **A)**

✔ **A)** True

   B) False

Points: 1 out of 1

Question 10 of 20
Middle School Math

$1/a^m = a^{-m}$

Correct answer: **A)**
Selected answer: **A)**

✔ **A)** True

   B) False

Points: 1 out of 1

Question 11 of 20
Middle School Math

Simplify the expression:

$1 + 2w - 6w^2 + 8w + 1 + 10w^2$

Correct answer: **A)**
Selected answer: **A)**

✔ **A)** $4w^2 + 10w + 2$

 B) $16w^2 + 10w + 2$

 C) $-4w^2 + 10w + 2$

 D) $16w^2 - 10w + 2$

Points: 1 out of 1

Question 12 of 20
Middle School Math

Simplify:
$-4p - (1 - 6p) + 2$

Correct answer: **C)**
Selected answer: **B)**

 A) $-2p - 1$

✖ **B)** $-2p + 1$

➡ **C)** $2p + 1$

 D) $2p - 1$

Points: 0 out of 1

Question 13 of 20
Middle School Math

Simplify:

$x^2 - x(x-4) + 3$

Correct answer: **A)**
Selected answer: **A)**

✔ **A)** $4x + 3$

 B) $-4x + 3$

 C) $2x^2 + 4x + 3$

 D) $2x^2 - 4x + 3$

Points: 1 out of 1

Question 14 of 20
Middle School Math

Simplify:

$3(x^2 + x) + 6(x + 4) - 2$

Correct answer: **D)**
Selected answer: **D)**

 A) $3x^2 - 9x - 22$

B) $3x^2+3x+26$

C) $3x^2-3x+26$

✓ **D)** $3x^2+9x+22$

Points: 1 out of 1

Question 15 of 20
Middle School Math

Simplify:

4 + 2k – 6z + 5z + 6k - 4

Correct answer: **C)**
Selected answer: **C)**

A) +8k+z

B) +8k-z+4

✓ **C)** +8k-z

D) +8k-z-4

Points: 1 out of 1

Question 16 of 20
Middle School Math

Find the Value of the expression

$(p-1)^2$ where p=7

Correct answer: **B)**
Selected answer: **B)**

A) 64

✓ **B)** 36

C) 8

D) 6

Points: 1 out of 1

Question 17 of 20
Middle School Math

Find the value if w=2

(2w-3)/4

Correct answer: **B)**
Selected answer: **B)**

A) 4

✓ **B)** $^1/_4$

C) 1

D) -1

Points: 1 out of 1

Question 18 of 20
Middle School Math

Simplify and find the value of the expression

$3ab^2 - 3a^2b$ if a=1;b=2

Correct answer: **D)**
Selected answer: **D)**

    A) -6

    B) 18

    C) -18

✔ **D)** 6

Points: 1 out of 1

Question 19 of 20
Middle School Math

Write the expression and find the value if x=10

Ivan has x marbles. Sam has twice the number Ivan has and adds 20 more marbles to his collection. How many marbles does Sam have?

Correct answer: **A)**
Selected answer: **A)**

✔ **A)** 40

    B) 30

    C) 10

    D) Cannot be determined.

Points: 1 out of 1

Question 20 of 20
Middle School Math

There are x number of cars and y number of motorcycles parked in a parking lot.
Find the total number of wheels if x=8 ; y= 4

Correct answer: **C)**
Selected answer: **C)**

    A) 48

    B) 44

✔ **C)** 40

    D) 32

Points: 1 out of 1

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