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Combined Grade 7**combined test Grade 7****75%**

Points: 30 out of 40

Duration: 00:44:43

Date started: Sun 17 Jan '21 11:02am

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Statistics by Category

Answers

✓ Correctly answered ✗ Incorrectly answered ➡ Missed correct option

All Questions | 16 Correct | 1 Partially Correct | 5 Incorrect

Question 1 of 22

Elementary Math

Find the slope of the equation $2x + 3y = -6$ Correct answer: **B)**Selected answer: **B)**A) $-3/2$ ✓ B) $-2/3$

C) 3

D) -2

Points: 1 out of 1**Question 2 of 22**

Elementary Math

Solve $\left[\left(-\frac{1}{3} \right)^2 \right]^{-1}$ Correct answer: **A)**Selected answer: **A)**✓ A) $1/81$ B) $-1/81$

C) -12

D) -18

Points: 1 out of 1**Question 3 of 22**

Middle School Math

1. Gloria starts with five times as much money as Hamish.

Gloria gives \$8 to Hamish, and then Hamish has more money than Gloria.

If Hamish starts with \$h, then which of the following is a correct inequality for h?

Correct answer: **D)**

Selected answer: **D)**

A) $5h + 8 < h - 8$

B) $h + 8 < 5h - 8$

C) $5h + 8 > h - 8$

✓ **D)** $h + 8 > 5h - 8$

Points: 2 out of 2

Question 4 of 22

Middle School Math

Find the value of $(m^{1/2} n^{-1/3} / n^{2/3} m^{-7/3})^{-1/6}$

Correct answer: **B)**

Selected answer: **A)**

✗ **A)** $m^{3/8} / n^{1/6}$

→ **B)** $n^{1/6} / m^{3/8}$

C) $n^{2/5} / m^{1/3}$

D) $(mn)^{-1/3}$

Points: 0 out of 2

Question 5 of 22

Middle School Math

Jacob gives his son \$30 for chocolate. His son spends \$16 on dark chocolate and spends the rest on white chocolate. Each white chocolate costs \$7. Write an inequality for the number of white chocolate he can purchase.

Correct answer: **C)**

Selected answer: **C)**

A) $14x \geq 7$

B) $7x \geq 14$

✓ **C)** $7x \leq 14$

D) $14x \leq 7$

Points: 1 out of 1

Question 6 of 22

Middle School Math

Rationalize the denominator

$(5+2\sqrt{3}) / (7+4\sqrt{3})$

Correct answer: **D)**

Selected answer: **D)**

A) $5\sqrt{3}$

B) $-11 + 6\sqrt{3}$ C) $17\sqrt{3}$ ✓ D) $11 - 6\sqrt{3}$

Points: 2 out of 2

Question 7 of 22

Middle School Math

Identify the slope-intercept form of the equation of the line through the given point with the given slope through: $(1, -1)$, slope $= -\frac{3}{5}$ and find the y-intercept

Answer given:

✓ $-\frac{2}{5}$

Accepted answers:

 $-\frac{2}{5} = b$ $-\frac{2}{5}$ $b = -\frac{2}{5}$

Points: 2 out of 2

Question 8 of 22

Middle School Math

By what number should $(-6)^{-1}$ be multiplied so that the product becomes 9^{-1} ?

Answer given:

✗ $-\frac{3}{2}$

Accepted answers:

 $-\frac{6}{9}$

Points: 0 out of 1

Question 9 of 22

Middle School Math

 $\sqrt{p^4 q^{-2}} / p^2 q^{-4}$

Answer given:

✓ q^3

Accepted answers:

 q^3

q cube

q cubed

Points: 2 out of 2

Question 10 of 22

Middle School Math

Rose sat a quiz with 30 questions, and got less than half as many questions wrong as she got right.

How many questions could she have got right?

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

- A)** more than 10
B) more than 19
C) more than 15
✓ **D)** more than 20

Points: 2 out of 2

Question 11 of 22

Middle School Math

Could the table of (x,y) pairs have been generated by a linear function?

x	0	1	3	5
y	-6	-3	0	4

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

- ✓ **A)** no
B) yes

Points: 1 out of 1

Question 12 of 22

Middle School Math

$y = 4 + (x^5 / 3)$ is a linear function

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

- ✓ **A)** false
B) true

Points: 1 out of 1

Question 13 of 22

Middle School Math

The velocity of an object fired directly upward is given by $V = 80 - 32t$, where t is in seconds.

When will the velocity be between 32 and 64 feet per second?

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

- A)** $-1.5 < t < 0.5$
B) $15 > t > 5$
✓ **C)** $1.5 < t < 0.5$
D) $48 < t < 16$

Points: 2 out of 2

Question 14 of 22

Middle School Math

Find the value of x in $81^{3-x} \geq (1/3)^{5x-6}$ *Answer given:* -9/19 $\geq x$ *Accepted answers:* $x \geq -6$ $-6 \leq x$

greater than or equal to -6

greater than equal to -6

Points: 0 out of 2**Question 15 of 22**

Middle School Math

Which of the following tables represents a nonlinear function?

a)

x	1	3	9	10
y	-3	-1	5	6

b)

x	-10	2	15	20
y	-51	9	74	99

c)

x	-8	-3	4	6
y	65	2	17	37

Answer given: c*Accepted answers:*

c)

c

Points: 2 out of 2**Question 16 of 22**

Middle School Math

The chess club and the ballet club of Nahk University were founded at the same time, and they each accept new members at a constant rate.

The chess club accepts 5 new members each week, and it had 37 members after 6 weeks.

The number of members in the ballet club as a function of time (in weeks) is given by the following table of values:

Time(weeks)	Members
3	28

10	70
17	112

Which club accepts more members each week?

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

- A)** Chess club
- ✓ **B)** Ballet club
- C)** Both the clubs have equal members

Points: 2 out of 2

Question 17 of 22

Middle School Math

If $(2^{3x-1} + 10) \div 7 = 6$, then x is equal to

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

- A)** -2
- B)** 0
- C)** 1
- ✓ **D)** 2

Points: 2 out of 2

Question 18 of 22

Middle School Math

A blank CD can hold 70 minutes of music. So far you have burned 25 minutes of music onto the CD. You estimate that each song lasts 4 minutes. Write and solve an inequality that shows the possible numbers of additional songs that you can burn onto the CD

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

- A)** 45 or fewer songs
- ✓ **B)** 11 or fewer songs
- C)** 12 or fewer songs
- D)** 9 or fewer songs

Points: 1 out of 1

Question 19 of 22

Middle School Math

Julia and Kajal make deliveries on their bicycles. For each delivery, they need some time to get ready, and then they each ride at a constant speed.

Julia takes 40 minutes to make a delivery 5 kilometers away. She uses 10 minutes of the delivery time to get ready.

The following equation gives the time it takes Kajal to make a delivery (in minutes) as a function of the distance of the delivery (in kilometers).

$$t = 15 + 6d$$

Who takes more time to get ready?

Answer given:

✓ Kajal

Accepted answers:

kajal

Kajal

Points: 2 out of 2

Question 20 of 22

Middle School Math

There are 5^7 grains of salt in a container of salt. If a large store has 5^4 containers of salt, how many grains of salt do they have? Leave your answer in the form a^b

Answer given:

✗ 5^{11}

Accepted answers:

5^{28}

5 power 28

5 raised to the power 28

Points: 0 out of 1

Question 21 of 22

Middle School Math

Adrian works in New York City and makes \$42 per hour. She works in an office and must get her suit dry cleaned every day for \$75. If she wants to make more than \$260 a day, at least how many hours must she work?

Answer given:

✗ 6

Accepted answers:

more than 7 hours

more than 7.97 hours

greater than 7 hours

greater than 7.97 hours

Points: 0 out of 2

Question 22 of 22

Middle School Math

Match the options below:

$\sqrt{3} \sqrt{15}$

✓ Correct answer

$3 \sqrt{5}$

✓ Correct answer

cube root (-81)

$$-3^{4/3}$$

$$(p^2)^{-8/3}$$

✗ Incorrect answer

$$\text{cube root } (16p)$$

➔ Missed correct answer

$$1/(p^5 \cdot \text{cube root } p)$$

$$4^{2/3} \cdot \text{cube root } p$$

✗ Incorrect answer

$$1/(p^5 \cdot \text{cube root } p)$$

➔ Missed correct answer

$$\text{cube root } (16p)$$

$$(8/343)^{-2/3}$$

✓ Correct answer

$$49/4$$

$$(1000 p^6)^{-1/3}$$

✓ Correct answer

$$1/(10 p^2)$$

Points: 4 out of 6

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