

Weekly Math #21 due at 8:00 AM

⚠ This is a preview of the draft version of the quiz

Started: Feb 24 at 11:19am

Quiz Instructions

You have 2 tries so you can make corrections. I will **AVERAGE** the two scores!

Remember...

- No Spaces
- No Labels
- No Commas
- Use / for fraction answers.

****All Mixed Numbers must be improper or changed to a decimal! ***

Question 1

1 pts

No Calculator.

Solve.

$$2x + 2^3 = 20$$

Question 2

1 pts

No Calculator.

Solve.

$$13x - 19 > -45$$

☐ $x > -2$

☐ $x > 2$

☐ $x > -32$

☐ $x < -2$

Question 3**1 pts**

No Calculator.

Find the scale factor for the scale, 4 inches = 9 feet.

Enter it as a fraction in simplest form.

Question 4**1 pts**

No Calculator.

The temperature at 1:00 p.m. on Tuesday was -13°C . There was an increase of 6° per hour starting at 1:00 p.m. Which of the following best represents the Celsius temperature n hours after 1:00 p.m. on Tuesday?

☐ $-13 + 6n$

☐ $-13 - 6n$

☐ $-13n + 6$

☐ $-13n - 6$

Question 5**1 pts**

No Calculator.

When $m = 16$ and $n = 4$, which expression is equal to 7?

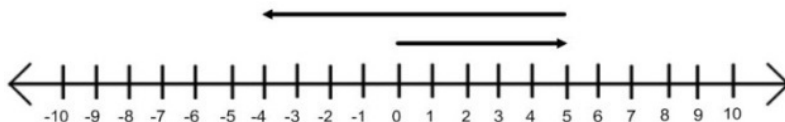
- ☐ $(m \div n) + 6$
- ☐ $m - 2n + 1$
- ☐ $(2m + 3) \div (n + 1)$
- ☐ $m - n^2 + 3$

Question 6

1 pts

No Calculator.

Which number sentence represents the model shown on the number line?



- ☐ $5 + (-4)$
- ☐ $9 - 5$
- ☐ $-4 - 5$
- ☐ $5 + (-9)$

Question 7

1 pts

No Calculator.

Chumley from the TV show “Pawn Stars” bought some vintage watches for \$15 each. He sold five of the watches for \$36 each. What was the

total amount of profit made for the watches he sold?

Question 8**1 pts**

No Calculator.

Solve and simplify.

$$\frac{(-4)^2}{10^2 \div 5}$$

Question 9**1 pts**

No Calculator.

Any number raised to the zero power always equals _____.

- ☐ zero
- ☐ one
- ☐ itself
- ☐ depends on the number

Question 10**1 pts**

No Calculator.

Miranda baked 48 muffins to sell at the school bake sale. She sold $\frac{2}{3}$ of the muffins and gave the rest to her friends to eat. How many muffins did she sell?

Question 11

1 pts

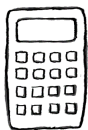
No Calculator.

Andrea borrowed \$180 from her mom. If she pays her mom back according to the schedule in the table, how many weeks will it take to pay back her mother?

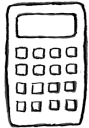
Week	Total Paid (\$)
1	15
2	30
3	45
4	60
5	75

Question 12

1 pts



A model airplane of a Boeing 777 was built to a scale of 1 cm = 5 meters. The original Boeing 777 has a wing length of 73.9 meters. What is the length of the airplane wing on the model? Do not round!

Question 13**1 pts**

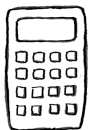
What is the scale factor if the scale is $\frac{1}{2}$ inch = 3 feet?

☐ $\frac{5}{34}$

☐ $\frac{1}{72}$

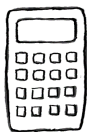
☐ $\frac{1}{3}$

☐ $\frac{1}{36}$

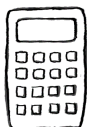
Question 14**1 pts**

A barn is 40 feet wide and 100 feet long. What are the scale drawing dimensions if the scale is $\frac{1}{2}$ inch = 10 feet?

☐ 2 inches x 5 inches☐ 800 inches x 2000 inches☐ 20 inches x 50 inches☐ 4 inches x 10 inches

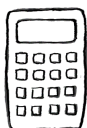
Question 15**1 pts**

A tennis racket sells for \$54. At an end-of-summer sale, the price is 30% less. What is the sale price?

Question 16**1 pts**

Which bottle of hair conditioner is the best buy?

- ☐ 8 oz for \$1.49
- ☐ 12 oz for \$2.29
- ☐ 15 oz for \$2.75
- ☐ 20 oz for \$3.89

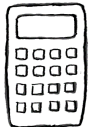
Question 17**1 pts**

Tia's parents gave her \$20 to spend at the Spring Carnival. She spent \$5 on a funnel cake and the remaining money on tickets for rides. If each ride ticket cost \$0.75, how

many ride tickets did she purchase?

Question 18

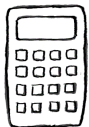
1 pts



On the blueprint of a portable stage the scale is 1 cm = 10 m. The length of the stage on the blueprint is 2 cm and the width is $\frac{1}{2}$ cm. What is the **perimeter** of the actual portable stage?

Question 19

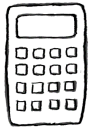
1 pts



Claire earns a 15% commission from her lipstick sales. Her sales for the month of April were \$400. How much commission did Claire earn for her April sales?

Question 20

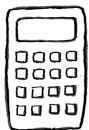
1 pts



Morgan had a bag of jolly ranchers. She counted 8 watermelon flavored candies in the bag of 46. If she bought a super-size bag with 138 jolly ranchers, how many could Morgan expect to be watermelon flavored?

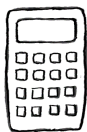
Question 21**1 pts**

A Jewelry Store uses a markup rate of 70% on all items. If the wholesale price of a pair of earrings is \$15.00, what is the retail price for the earrings?

Question 22**1 pts**

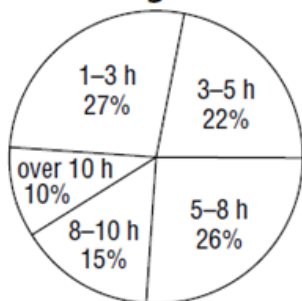
Solve for y.

$$-5 = \frac{y - 7}{9}$$

Question 23**1 pts**

The circle graph gives a breakdown of the hours students use the tutoring center. If the graph is based on 300 students, how many used the center 8 to 10 hours during the week?

**Weekly Use of
Tutoring Center**

**Question 24****1 pts**

Mr. Callaway needs to purchase enough grass seed to cover a 3000-square-foot lawn and a 4200-square-foot lawn. If 40 ounces of grass seed will seed a 2400-square-foot lawn, how many ounces does he need to seed both lawns?

☐ 20

☐ 30

☐ 120

☐ 180

Not saved