

Weekly Math #22 due - Wednesday at 8:00 am

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

Started: Feb 24 at 11:33am

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

Mr. Smith has a 4 in. wide by 6 in. long photo. He enlarges it so the new photo is 18 inches long. What is the **area** of the new picture?

Question 2

1 pts

No Calculator

A plane travels 2880 miles in 3 hours. What is its average rate of speed?

☐ 960 miles per hour

☐ 96 miles per hour

☐ 9.3 miles per hour

☐ 29 miles per hour

Question 3

1 pts

No Calculator

Ian earns x dollars a month. He received a 10% raise in his paycheck. Which expression represents Ian's new monthly paycheck?

☐ $x + 0.10$

☐ $x + 0.10x$

☐ $x + 1.10$

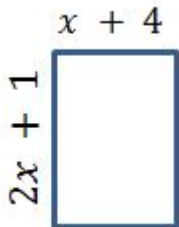
☐ $x + 1.10x$

Question 4

1 pts

No Calculator

Solve for x , given the perimeter = 40 cm.



Question 5

1 pts

No Calculator

$$\frac{2}{3}x < 12$$

☐ $x < 18$

☐ $x < 8$

☐ $x > 18$

☐ $x > 8$

Question 6

1 pts

No Calculator

A model airplane was built using the scale $\frac{1}{4}$ in = 3 feet. What **scale factor** was used to build the model?

☐ $\frac{1}{3}$

☐ $\frac{1}{12}$

☐ $\frac{1}{120}$

☐ $\frac{1}{144}$

Question 7

1 pts

No Calculator

Solve for x.

$$2\frac{2}{3} + x = 4\frac{5}{6}$$

Enter your answer as an improper fraction.

Question 8

1 pts

No Calculator

Which model represents -2 given; $\bullet = -1$ and $\circ = 1$

☐ $\bullet \bullet \bullet \bullet \circ \circ \circ \circ$

☐ $\bullet \bullet \circ \circ$

☐ $\bullet \bullet \bullet \bullet \circ \circ$

☐ $\bullet \bullet \circ \circ \circ \circ$

Question 9

1 pts

No Calculator

Three brothers received \$15 each for helping neighbors with yard work. The chart below shows how much of their money each brother spent. Which brother spent the most money?

Name of Brother	\$ Spent
Sean	\$3.50
Jim	20%
Charles	$\frac{1}{4}$

- ☐ Sean
- ☐ Jim
- ☐ Charles

Question 10**1 pts****No Calculator**

Solve.

$$\frac{c}{-3} + 7 = -8$$

Question 11**1 pts****No Calculator**

Swimsuits that regularly sell for \$36 are on sale for 25% off. Which equation represents the discount?

- ☐ 0.75×36
- ☐ 1.25×36
- ☐ 0.25×36

☐ $36 - (0.25 \times 36)$

Question 12**1 pts****No Calculator**

You spent \$72. You bought 6 shirts yesterday and 3 shirts today. Each shirt cost the same amount. Which equation can be used to find the cost of one shirt?

☐ $3n + 72 = 6n$

☐ $3n + 6 = 72$

☐ $6n + 3 = 72$

☐ $6n + 3n = 72$

Question 13**1 pts****No Calculator**

Solve.

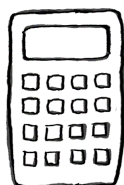
$$4x - 6x + 12 = -14$$

Question 14**1 pts****No Calculator**

Lance baked a pie. Justin ate $\frac{2}{3}$ of the pie, and Joey ate $\frac{1}{4}$ of the pie. How much of the pie was left?

Question 15**1 pts****No Calculator**

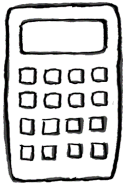
Jenna bought 3 copies of a book from a catalog. The total cost of the books was \$19, which includes \$1.75 for shipping. How much did each copy of the book cost?

Question 16**1 pts**

At the school festival the student council sold sodas as a fundraiser. The table below shows the number of sodas they sold and the cumulative total money. Based on the table what is the price per soda?

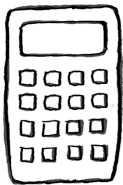
Sodas sold	Money
2	\$7.00
5	\$17.50
9	\$31.50
10	\$35.00

Question 17**1 pts**

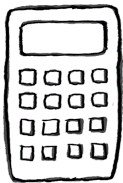


When an elephant casts a 2.5-meter shadow, a man 2 meters tall casts a 1.5 meter shadow. How tall is the elephant?

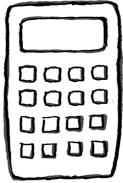
Enter your answer as an improper fraction.

Question 18**1 pts**

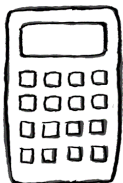
Find the percent of increase from 48 to 60.

Question 19**1 pts**

A scale on a map is 1.5 inches: 200 miles. The map distance from Miami to Chicago is 9 in. What is the actual distance between the cities?

Question 20**1 pts**

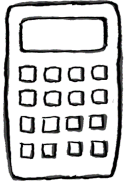
Elaine paid \$2,350.24 for a computer that was discounted 15%. What was the retail price before the discount?

Question 21**1 pts**

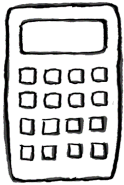
Two minutes after a skydiver opens his parachute, he has descended 1,900 feet. After 5 minutes, he has descended 4,750 feet. If the distance descended varies directly with time, at what rate is the skydiver descending?

- ☐ 950 feet per minute
- ☐ 2375 feet per minute
- ☐ 380 feet per minute

☐ 860 feet per minute

Question 22**1 pts**

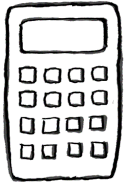
What number is 58% of 420?

Question 23**1 pts**

Find the constant of proportionality for the ordered pairs.

$(8, 2)$, $(12, 3)$, $(24, 6)$, $(48, 12)$

Question 24**1 pts**



Bubba purchased 10 pairs of socks from the Sports Shop. Each pair of socks cost \$4.99. He had a coupon for 20% off his entire purchase but he had to pay 7% sales tax after the discount was applied. What was the total cost of the purchase?

☐ \$42.71

☐ \$39.99

☐ \$36.90

☐ \$36.43

Not saved

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