Using the data below, find the particular data types asked.

- 5. Mean = 8°
- 7. Interquartile Range = Stats(L) Q3-Q1 8. Range =
- 8. Range =
- 9. Standard Deviation = 6.

Complete EOG student suggested review

Math 1 EOC Review Sheet

hey

Section 1: Systems of Equations

1. An Algebra teacher is giving a test worth 150 points. The test will have 46 three and five point questions. How many of each question is on the test?

3x+5y=150 X+Y=46 3x+5y=150 -3x-3y=-138

476 Spt questions 140 3pt gurstions 3(40)+5(4) = 150 4016246

2. How much of a 25% juice mixture would you have to combine with a 55% juice mixture create 32 gallons of a 40% juice mixture?

× 25 32-x 55 25x + 55 (32-x) = 32(40) 25x + 1760-55x = 1786 -30x = -480

32 40 3. Rich Rhonda collects nickels and quarters. Her piggy bank now holds 30 coins amounting to . 05(12)+.25(18)=5.1

\$5.10. How many of each coin does she have?

y=-20.4

.80x = 9.b

Section 2: Quadratics

18 quarters

Section 2: Quadratics

X= 17 DICECO 18 quarters

1. Identify the vertex, axis of symmetry, min or max, and range of the following function:

 $y = x^2 + 6x + 9$

vertex:

(-3,0)

max of min:

(-3)2+6(-3)+9 Axis of symmetry: x=-3

range: 420

- 2. The amount of medicine in Elizabeth's blood is modeled by the function $M(t) = -2t^2 + 14t$, where t is the number of hours after she takes the medicine.
 - How many hours after Elizabeth takes her medicine is the amount of medicine in her blood the highest? - b - 14 2(-2)
 - Can also look What is the highest amount of medicine in Elizabeth's blood? for max when b. -213.5)2+14(3.5) (24.5) graphed
 - When will there be no medicine left in Elizabeth's blood? C.

()=-2+2+141 0=-21(+2-7

on graph look for positive X-intercept

+>0 T - 1

3. There are three consecutive positive integers such that the product of the smaller two is 34 less than 10 times the largest integer. What is the value of the smallest integer?

$$X(x+1) = 10(x+2)-34$$

$$x^{2}+x = 10x+20-34$$

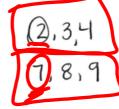
$$x^{2}+x = 10x-14$$

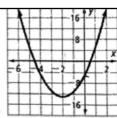
$$-10x+N-16x+14$$

$$x^{2}-9x+14=0$$

$$(x-7)(x-2)$$

$$x=7 x=2$$





4. Which equation matches the graph shown at the right?

a.
$$y = 8x^2 + 2x - 5$$

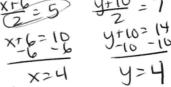
b.
$$y = 8x^2 + 2x + 5 + \frac{2}{14}$$

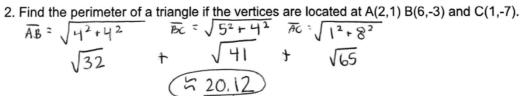
c.
$$y = 2x^2 + 8x - 5 + \frac{-8}{4} = -2 \quad y - 101 = -5$$

$$y = 2x^2 + 8x + 5$$

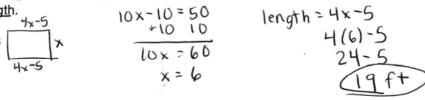
Section 3: Geometry

1. M is the midpoint of AB. If A is located at (6,10) and M is located at (5,7), find the coordinates (5,7) of B. (6,10)

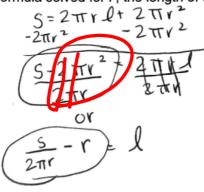




3. The length of a rectangle is five less than four times the width. If the perimeter is 50 feet, find the length.



4. The surface area, S, of a cylinder is calculated using the formula $S = 2\pi rI + 2\pi r^2$. What is the equation for this formula solved for I, the length of the cylinder?

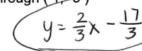


Section 4: Linear Functions

1. What is the equation of a line parallel to 2x - 3y = 12 through (1-5)

$$\frac{2x - 3y = 12}{-2x}$$

m= 2 y=mx+b -5= (=)(1)+



2. What is the equation of a line with an undefined slope passing through (3, -4)?



3. Find the range for the following function given the domain $\{-2, 3, -5\}$: y = -4x - 1

$$-4(-2)-1=7$$

 $-4(3)-1=-13$

-4(-5)-1 = 19

Age (months)	Weight (lb)
1	2.5
2	7.6
3	12.5
4	17.1
6	24.3
. 8	37.9
10	49.2
12	54.9

- a) Equation of the Line of Best Fit/linear regression equation: $y = 4.92 \times -2.55$
- b) What does the slope mean in the context of the problem?
 4,92 \bs gained/month
- c) What does the y-intercept mean in the context of the problem?

 starting weight (although not realistic)
- d) Using the trend, how much will the panda weigh when 2 years old? 24mo 4.92(24)-2.95=115.53 lb s ls this realistic? Yes
- e) What is the correlation coefficient and what does it mean?

f) What is the residual of a panda that is 6 months old?

Section 6: Sequences

1. Which sequence uses the algebraic expression 4n + 5 to describe the relationship between a term in the sequence and its position, n, in the sequence?

A. 4, 9, 14, 19, 24 ... B. 4, 8, 12, 16, 20 ... C. 9, 13, 17, 21, 25 ... D. 9, 10, 11, 12, 13 ...

2. Complete the table:

Sequence	Explicit form	Recursive form
{1, 5, 9, 13, 17,}	4x-3	an - an-1+L
{9, 7, 5, 3, 1,}	42×+1	11 11 -2
{15, 30, 45, 60, 75,}	V = (5x	(1 (1 + 15

Quizizz: Math 1 EOC Review