No Work - No Grade

1.

4.

Question 1

Solve the following equation for a

1-
$$\sqrt{3a} = -6$$

2-
$$(a-4)^2 = 49$$

3-
$$a^2 = 4a + 5$$

4-
$$5a^2 + 14a = 3$$

5-
$$\sqrt{4a+5} = a-4$$

6-
$$3a - 2 = 5a + 7$$

2.

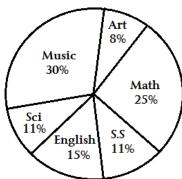
5.

3.

6.

Question 2

A survey was conducted to find the favorite class of 500 students. The results are recorded in the circle graph below.



- 1- How many students like Math?
- 2- What is the difference between students who like Music and students who like Art?
- 3- What is the total number of people who like English and Science?

Question 3

If 7m - 1 = 13, What is the value of 3m?

Question 4

A bag contains 9 blue, 5 red , 8 white and 3 yellow marbles, what is the probability of

- 1- Selecting a yellow marble?
- 2- Selecting a marble that is not white?

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Question 5

Solve for r in the following equation:

$$\frac{2}{r} - \frac{3}{2} = \frac{1}{2r}$$

Question 6

Simplify the following expression: $\left(\frac{m^3m^4}{m^2}\right)^5$?

Question 7

Evaluate the following expression when a=3 , b=-4 and c=7 ?

$$a + b (c - a)^2 - 5$$

Question 8

For the set of numbers { 8 , 4 , 1 , 1 , 1 , 7 , -2 , 5 , 8 , 1 } . Find the following :

- 1- Mean:
- 2- Median:
- 3- Mode:
- 4- Range:

Question 9

Factor the following expression:

- 1- $28x^2 7x$
- 2- $2ab + 4ab^2$
- 3- $y^2 5y 66$
- 4- $b^2 + 7b + 12$
- 5- $7n^2 + 33n 10$

Question 10

Solve for x:

I.
$$-3x = 12$$

II.
$$x + 5 = -2$$

III.
$$\frac{x}{2} = -4$$

IV.
$$2x - 1 = 9$$

V.
$$-4x + 6 = -10$$

VI.
$$4x - 6x = -20$$

VII.
$$5x - 1 = 8x - 10$$

VIII.
$$3 - x = -4$$

IX.
$$10 - 6(x + 5) = -2$$

$$(x - 3(x - 5)) = -2(4x + 9)$$

Question 11

Simply the algebraic expression below:

i.
$$2x + 6x$$

ii.
$$-3a + 6 - 6a + 8$$

iii.
$$5y^2 + 8y - 6y^2 - 9$$

iv.
$$-11m + 9 + 13 - 8m$$

v.
$$3(b-1)$$

vi.
$$-2(c-7) + 13c - 7$$

vii.
$$2a + 7a - 9a + 10a$$

viii.
$$8t - 7t + 4 + 12$$

ix.
$$5(h+6)-(h-1)$$

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Question 12				
Find the Area and the per	imeter of the rectangle s	shown belov	v:	
	4	x-6		
			5x	:+1
Perimeter :				
renineter.				
Area:				
Question 13				
cities are 7 cm a part on t				epresented by 3 cm. If two
Question 14				
A garden have a square sl and length?	nape, its area is 44 squar	e ft, the len	gth is 7 ft more	than its width. Find its width
Question 15				
What is the average of the	e first 6 odd positive inte	egers?		