

HONORS TEST 1 REVIEW GAME



SCORE SHEET

	Problems																			
Groups Names	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

- 4 points for correct answer within 1 minute
- 3 points for correct answer within 2 minutes
- 2 points for correct answer within 3 minutes
- 1 points for correct answer within 4 minutes

PROBLEM 1:

Evaluate the expression when $x = 4$ and $y = -3$

$$4(x - y)^2 + 5x - 2y^2$$

PROBLEM 2:

Write the expression in simplest form.

$$17x + 26xy^2 - 11 - 7xy^2 + 23 - 13x - 9xy^2$$

PROBLEM 3:

Which expressions below are equivalent?

$$6x - 4(2x + 3) - 9 + 5x$$

I. $3x - 6$

II. $6x - 3x - 12 - 9$

III. $3x - 21$

IV. $6x - 8x + 3 - 9 + 5x$

V. $3x + 6x - 9 + 5x - 12$

PROBLEM 4:

Multiply.

$$4x^3y^2(6x^5y^3 - 2x^3y^2 + 5xy - 8)$$

PROBLEM 5:

Bobby has \$3500 in his saving account. He working at Publix making \$300 per week. Write an algebraic expression that represents bobby's saving in (w) weeks.

PROBLEM 6:

The small rectangle has an area of $4x^2 + 6x + 7$ and the large rectangle has an area of $10x^2 - 5x + 8$. Find the area of the both rectangles.



PROBLEM 7:

A desk has a length of the $3x + 1$ and a width of $2x - 5$. what is the area of the desk?

PROBLEM 8:

Find the Product.

$$(x - 4)(3x^2 - 5x + 2)$$

PROBLEM 9:

Identify the polynomials by terms. (monomial, binomial and trinomial)

1) $5 + 3(x + 7)$

2) $3x^2 + 5x - 8xy$

3) $345ab^2c$

4) $4x^2 - 8y^2$

5) $4xy^2 + 4(x - 6) + 1$

PROBLEM 10:

Part 1: A rational times a irrational create what type of answer?

Rational or Irrational

Part 2: Identify if the problem below is rational or irrational?

$$\sqrt{4} \cdot \sqrt{4} = \underline{\hspace{2cm}}$$

PROBLEM 11:

A cyclist travels 110 kilometers in 4.4 hours. Use dimensional analysis to convert the cyclist's speed to miles per minute. Use $1 \text{ mi} = 1.61 \text{ km}$.

PROBLEM 12:

Write expressions for the statement below.

- 1) Seven more than twice the number.
- 2) eight less than a number, y .
- 3) five times a number plus six.
- 4) three times the quotient of a number an four.

PROBLEM 13:

Evaluate the expression when $x = 3$ and $y = -2$

$$8 - 12y \div 4x + 9$$

PROBLEM 14:

Subtract the polynomial.

$$(8x^3 + 7 - 3x) - (3 + 6x^3 + 5x)$$

PROBLEM 15:

Multiply the polynomial.

$$(2x + 5)(2x^2 + 3x - 4)$$

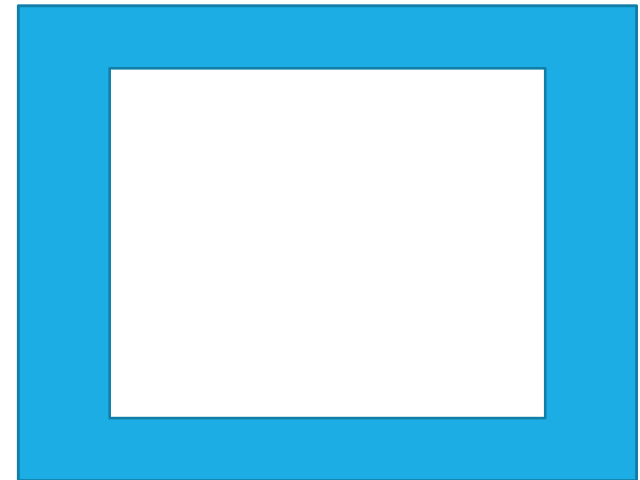
PROBLEM 16:

Write an equivalent expression in simplest form.

$$7x - 10 + 6xy - 22x + 15 - 9xy$$

PROBLEM 17:

The area of the large rectangle is $5x^2 + 3x + 7$ and the area small rectangle is $2x^2 + 3$. What is the area of the shaded green region as a polynomial?



PROBLEM 18:

Identify if the problem below is rational or irrational?

1) $3\sqrt{25}$

2) 3π

3) $\frac{\sqrt{64}}{9}$

4) $-5 + e$

PROBLEM 19:

Which expressions below are equivalent?

$$6(x + 3) - 3(5x - 4)$$

I. $6x + 3 - 15x - 4$

II. $-9x + 30$

III. $15x + 18 + 6x + 12$

IV. $6x$

V. $9x + 6$

PROBLEM 20:

While walking down the street I met a man. He tipped his hat and drew his cane and in this riddle I told his name.

What is the man's name?