

NAME _____

REWIND AND REMEMBER #6 Acc (20 points).

1) Compare the solutions to the two problems below (show all the work for each problem):

Circle **A>B** or **B>A** or **A=B**

A. $\frac{6}{16} + \frac{3}{4} + 5\frac{1}{4}$

B. $10\frac{3}{4} \div 2\frac{1}{2}$

2) $|(-6)^3 + 100| - 4^0$

3) -4^4

4) If $x = -2, y = -3$

$$\frac{x^2 - 2xy}{2y}$$

- 5) The new Degas masterpiece purchased by the Museum of Fine Arts in Boston needs to be reframed. If the rectangular picture measures $6x-3$ inches wide by $8x-7$ inches high, what is the perimeter of the painting? **Give the simplified expression and then tell what the perimeter will be if $x = 4$ in.**

- 6) Indicate if the situation below represents a proportional or non-proportional relationship. Justify your response. Use the given information to fill in the missing information.

Bill pays \$4.00 an hour for parking fees and an additional charge of \$10.00.

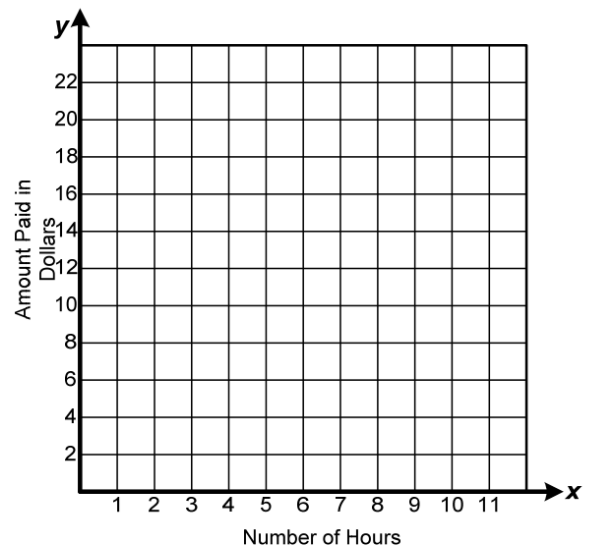
Table and Equation

Number of Hours	Process	Amount Paid (\$)
x		y

Equation:

Proportional:

Graph



7) Circle A, B, C or D. Find the next three numbers in the sequence.

5, 12, 26, ...

A. 52, 104, 208

B. 33, 40, 47

C. 47, 74, 111

D. 54, 110, 222

8) Evaluate the expressions to learn some shark facts.

a) length of a pygmy ribbontail catshark (inches) $24 - \sqrt{400} + \sqrt{9}$

b) strength of the dusky shark (pounds of force) $2(4^3) + \sqrt{16}$

c) migration distance of the blue shark (miles)
 $40^2 - 3(24 + 6^2) + 4\sqrt{1600} + 30$

9) Bryan is a photographer. He has a 5 in. by 7 in. photo that he wants to enlarge by 200%. What is the area of the new photo? Explain your answer.

10) Which expression is correctly simplified? Show your work!

A. $5cd - 3d^2 - (-cd) = 4cd - 3d^2$

B. $w(12 + w - 2) = w^2 + 10w$

C. $\frac{40a^3}{8a} = 5a$

D. $\frac{9a^2b}{81ab} = \frac{1}{9}$