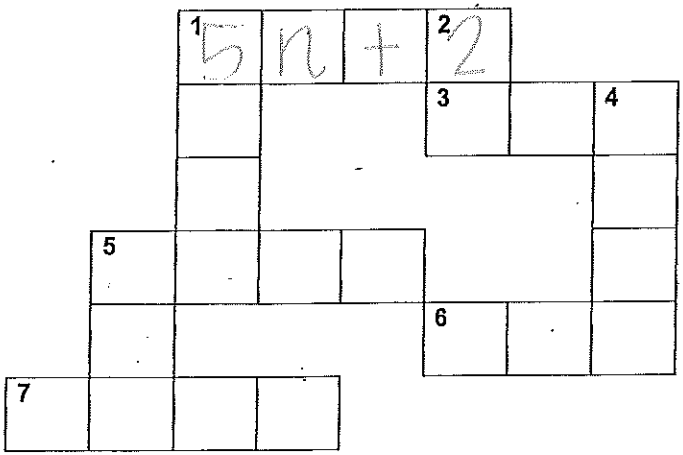
Student Name: GRADED 12/4 *IN CLASS Date:

Cross Number Puzzle



Write an expression for each verbal description below.

Across

1 Two more than the product of 5 and *n*

3 The quotient of *n* and 3

5 One less than the product of 6 and *n*

6 The sum of *n* and 4

7 Six less than the product of 4 and *n*

Down

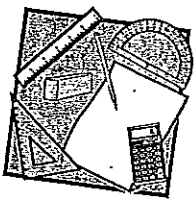
1 Five more than the product of 3 ar

2 Twice *n*

4 The sum of 3*n* and 4

5 Six more than *n*

Communicating about Mathematics
Write a different verbal description that could be used for 2-Down.



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Equations and Number Sent

1) Mr. Wendall donated $5000 to NASA for its youth scholarship program. NASA then gave equal amounts of that money to 40 middle school students to help them pay for Space Camp. Which equation can be used to find *m*, the amount of money each student received?

A $m = 5000 \times 40$

B $m = 5000 \div 40$

C $m = \frac{5000 - 40}{40}$

D $m = \frac{5000x40}{5000}$

2) Phil has to delive
supermarkets. There
route, and each one
of watermelons. She
warehouse Phil hit a
fell out of his truck.
to find w, the numb
supermarket will en

A $w = 600 - \frac{45}{15}$

C $w = \frac{600 - 45}{15}$

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3) Each person picked 6 quarts of berries. 144 quarts of berries were picked in all. Which number sentence could you use to find out how many people picked berries?

A $6n = 144$

B $n + 6 = 144$

C $n - 6 = 144$

D $n \div 6 = 144$

4) During a field tri
in the class checked
were checked out. W
you use to find the n
class?

A $n - 3 = 81$

C $n \div 3 = 81$

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5) The sixth-grade class is going to have a bake sale. Each of the 41 students agrees to bring 5 dozen cookies to sell. Which number sentence could you use to find out how many dozens of cookies they will be able to sell?

6) Kisha bought 4 p
contained 8 rolls. W
you use to find out h

A $4 + 8 = n$

7) Which equation can be used to determine *m*, the number of minutes in *d* days?

A $m = 60 \times (d + 24)$ B $m = 7 \times (d + 60)$

C $m = d \times 24 \times 60$ D $m = 7 \times d \times 60$

8) Which equation
number of hours in

A $h = w \times 7 \times 24$

C $h = 24 \times (w + 60$

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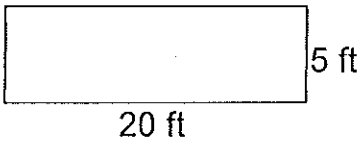
9) Joe needs to put a fence around the rectangular dog pen shown below. Which equation could be used to find F, the number of feet of fencing that Joe must buy?



A $F = 5 + 20$ B $F = 5 \times 20$

C $F = 2(5 \times 20)$ D $F = 2(5 + 20)$

10) Kendra needs t
picture frame. Whi
find M, the length

A $M = 3 + 4$

B $M = 3 \cdot 4$

C $M = (2 \times 4) + (2$

D $M = 4(3 + 4)$

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11) David bought 2 shirts that were originally priced at $26.50 each. Each shirt was on sale for $3.98 off the original price when David bought them. Which equation can be used to find *t*, the total sale price of the 2 shirts?

A $t = 26.50 - 3.98$

B $t = 2(26.50) - 3.98$

C $t = 2(3.98) - 2(26.50)$

D $t = 2(26.50) - 2(3.98)$

12) Mr. Chavez dist
paper to the art stud
received 3 sheets of
equation can be use
students in the class

A $s = 78 \div 3$

B $s = 75 - 3$

C $s = 78 \times 3$

D $s = 78 + 3$