11 pts	(
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1. Evaluate the expression when m = 15 & n = 7.5 for mn/3.5m_f PEMDAS

2. Evaluate the expression when m = 10 & n = 1 & p = 27 for $\frac{3.5mn + 7p}{\frac{1}{2}m - \frac{1}{3}p}$

$$\frac{(35*10*1+7*27)}{(\frac{1}{2}\cdot10-\frac{1}{3}\cdot27)} = \frac{(35+189)}{5-9} = \frac{(3$$

$$= \frac{(35 + 189)}{5 - 9} =$$

$$= \frac{394}{-4} = \frac{-56}{}$$

3. Solve using inverse operations:

operations:
$$3n + 4(n+2) = 70$$

 $3n + 4n + 8 = 70$

$$7n+8 = 70$$
 -8
 -8
 $7n = 62$

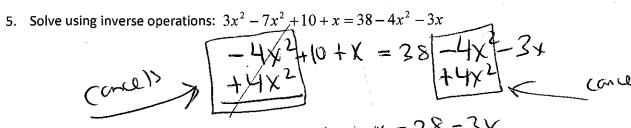
$$n = \frac{62}{7}$$

4. Solve using inverse operations:

$$20 = \frac{x}{100} - 35$$

$$+35 + 35$$

$$100 \cdot 55 = \frac{x}{100} \cdot 100$$



$$10+ x = 38 - 3x$$

 $-x$ $-x$
 $10 = 38 - 4x$

6. Solve using inverse operations:
$$\frac{-16x \ge 48}{-16}$$

Since you are dividing by a negative coefficient your swiften

7. Use the Luhn Algorithm to determine the check digit of the following credit card number: 5466 – 1234 – 5678 – 912__

1+0, +4 + 1+2 +6 + 2+2+6+4 + 1+0+6+1+4+8+1+4

$$62 + \frac{2}{5} = 70$$

181 - missing digit

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Work Right to left / mult each odd positioned digit by I

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8. The quotient of a number divided by four.



9. Twenty subtracted from the product of a number and 11.

$$11x - 20$$

10. Write and algebraic equation and solve. The product of five and a number x, is less than the 25.

11. Use an equation to solve. Start out with: Let.....=..... The tickets for the theater cost \$8.50 each. Miles bought 5 of them and gave the cashier a one-hundred dollar bill. What was the cost of the tickets?