Name: _____   **Date:** _____

1. Renee wants to order fishing poles for her tour group. The table below shows the total cost (c) of ordering n poles.

Fishing Poles

Number (n)	Total Cost (c)
3	$120
4	$140
5	$160
6	$180
7	$200

Which equation shows the relationship between the number of poles ordered, n, and the total cost, c?

A. $c = 3n + 120$ B. $c = 4n + 180$

C. $c = 20n + 60$ D. $c = 40n$

2. The weight of a newborn tiger is shown in the table below.

Weight of Tiger

Age (weeks)	Weight (pounds)
0	3
1	5
2	7
3	9
4	11

Which equation *best* represents the relationship between the age (a) of the tiger and its weight (w)?

A. $w = 2a + 3$ B. $w = 3a + 2$

C. $a = 2w + 3$ D. $a = 3w + 2$

3. The table below shows the prices a company charges for basketball trophies.

Basketball Trophy Prices

Number of Letters (x)	Price (y)
0	$3.90
1	$4.00
2	$4.10
3	$4.20
4	$4.30

Each price depends on the number of letters (x) to be engraved. Which equation models the price (y) of a trophy with x letters?

A. $y = 3.90 + x$ B. $y = 3.90x$

C. $y = 3.90 + 0.10x$ D. $y = 3.90 + 10x$

4. The following table shows the noise level at various distances from an airport when an airplane takes off.

Noise Level of an Airplane at Take-off

Miles (M) from Airport	Noise Level (D) (in Decibels)
1	75
2	64
3	53
4	42

Which equation shows the relationship between D and M in this table?

A. $D = 86 - 11M$ B. $D = 11M - 86$

C. $D = 76 - M$ D. $D = M - 76$

5. A pump is draining 12,000 gallons of water out of a swimming pool. The pump drains at a constant rate of 360 gallons per hour.

Which of the following equations expresses the relationship between x, the number of hours the pump has been draining the pool, and y, the number of gallons of water left in the pool?

A. $y = 360x - 12,000$ B. $y = 360x + 12,000$

C. $y = 12,000 - 360x$ D. $y = 12,000 + 360x$

6. A video store charges a one-time membership fee of \$12.00 plus \$1.50 per video rental. Which of these equations represents the amount (A) a customer spends, in dollars, for v videos?

A. $A = 1.5v - 12$ B. $A = 1.5v + 12$

C. $A = 12v + 1.50$ D. $A = 12v - 1.50$

7. Lydia has \$200 in her bank account at the beginning of the year. Each month, she deposits \$40 into her account. She does not withdraw any money from her account, and the account pays no interest. Which of these equations could Lydia use to find the total amount (T) in her bank account at the end of m months?

A. $T = 40m$ B. $T = 240m$

C. $T = 200m + 40$ D. $T = 40m + 200$

8. A repair company charges an initial fee of \$50, plus an additional \$35 per hour of work. Which equation can be used to determine c, the amount the company charges for h hours of work?

A. $c = 35h + 50$ B. $c = 50h + 35$

C. $c = 85h$

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1.
Answer: C
Points: 1

2.
Answer: A
Points: 1

3.
Answer: C
Points: 1

4.
Answer: A
Points: 1

5.
Answer: C
Objective: MA 10.P.7
Points: 1

6.
Answer: B
Objective: 1.2.1
Points: 1

7.
Answer: D
Objective: 1.2.1
Points: 1

8.
Answer: A
Points: 1