1. Which equation represents the proportional relationship in the table?

x	y
0	0
2	−3
5	−7.5
8	−12
11	−16.5

A $y = x - 4.5$

B $y = x - 1.5$

C $y = -1.5x$

D $y = -4.5x$

2. The table shows the number of cups of almonds for various serving sizes of chocolate almond bark.

Cups of Almonds in Chocolate Almond Bark

Servings	8	16	24	32	40
Almond (cups)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$

Which equation represents the relationship between the number of cups of almonds and the number of servings of chocolate almond bark, where *a* represents the number of cups of almonds and *s* represents the number of servings of chocolate almond bark?

A $a = 16s$

B $a = \frac{1}{2}s$

C $s = 16a$

D $s = \frac{1}{2}a$

3. This table shows the relationship between *x* and *y*. Which equation models this relationship?

x	y
3	163.5
6	327
11	599.5

A $y = 53x$

B $y = 53.5x$

C $y = 54x$

D $y = 54.5x$

4. The table below shows the relationship between C, the cost in dollars of a piece of gold, and W, its weight in ounces. Which equation could be used to determine the cost of a piece of gold of any weight?

Cost of Gold Based on Weight

Cost (C) in Dollars	Weight (w) in Ounces
7,200	12
13,200	22
19,200	32

A $\quad 10w + 600 = C$

B $\quad \dfrac{600}{w} = C$

C $\quad 600w = C$

D $\quad \dfrac{w}{600} = C$

5. The table shows the price of different numbers of downloaded songs. Which equation shows the cost, c, of n number of downloaded songs?

Number of Songs (n)	Cost (c)
5	$7.50
7	$10.50
13	$19.50

A $\quad c = 0.67n$

B $\quad c = 1.50n$

C $\quad c = 2.00n$

D $\quad c = 3.00n$

6. Which equation represents the proportional relationship in the table?

x	y
−2	−7
−4	−14
−6	−21
−8	−28

A $\quad y = 3.5x$

B $\quad y = -3.5x$

C $\quad y = x + 5$

D $\quad y = x - 5$