1. A 12 -ounce box of cereal costs $\$ 3.60$. Which equation correctly relates the price $(p)$ with the weight $(w)$ of the cereal?
A $\quad p=3.3 w$
B $\quad p=0.3 w$
C $p=3.6 w$
D $\quad p=12 w$
2. A hot dog costs $\$ 2$ at the ballpark. Which equation shows the total cost, $c$, of $n$ hot dogs?
A $c=2+n$
B $\quad n=2+c$
C $c=2 n$
D $n=2 c$
3. The amount of blood in a person's body depends on their body weight. A person weighing 120 pounds has about 20 pints of blood in their body. Which equation below represents the relationship between pints of blood, $b$, and a person's weight, $w$ ?
A $b-\frac{1}{6} w$
B $\quad b=6 w$
C $\quad b=w+6$
D $\quad b=w-6$
4. The number of gallons of gas, $g$, used by a car is proportional to the number of miles, $m$, with a constant average miles per gallon, a. Which equation represents this relationship?
A $\quad g-m=a$
B $\frac{m+g}{2}=a$
C $a=g m$
D $\quad g=a m$
5. Mr. Kelly pays $\$ 12,564$ a year for rent. His rent is a constant amount each month. Which equation represents the amount he pays per month if $m=$ months and $c=$ total rent paid for the year?
A $1,047 m=c$
B $\quad m \div 1,047=c$
C $1,047+m=c$
D $1,047 c=m$
6. Nicholas is typing a book report at an average speed of 30 words per minute. Which equation could Nicholas use to find $t$, the amount of time in minutes he will spend typing, if his report has $w$ words?
A $t=30 w$
B $\quad w=30 t$
C $t=w+30$
D $\quad w=t+30$
7. Tammy earns $\$ 16.50$ in three hours. Which equation represents Tammy's income, $l$, in dollars, as a function of time, $t$, in hours?
A $\quad I=16.5 t$
B $\quad I=7 t-4.5$
C $\quad I=3 t+16.5$
D $I=5.5 t$
8. The cost of one movie ticket for an adult is 1.6 times the cost of a ticket for a child. If $a$ equals the cost of one adult ticket and $c$ equals the cost of one child ticket, which equation represents the relationship between $a$ and $c$ ?
A $a=1.6 c$
B $\quad c=1.6 a$
C $1.6=a+c$
D $1.6=a-c$
9. For every 10 apples gathered from trees in an orchard, there are 9 apples that are good to sell. Which equation determines the constant relationship between $g$, the number of apples gathered, and $s$, the number of apples good to sell?
A $\quad s=0.9 g$
B $\quad s=1.1 g$
C $\quad g=s-1$
D $\quad g=s+1$
10. Richard is buying hamburgers. He can buy 5 hamburgers for $\$ 6.20$ or 12 hamburgers for $\$ 14.88$. Which equation represents the cost, $y$, of $x$ hamburgers?
A $y=1.20 x$
B $\quad x=1.20 y$
C $y=1.24 x$
D $\quad x=1.24 y$
