Match each word problem to the corresponding expression
a) ___ $x+12$. The music festival was 7 times bigger than last year
b) - 10-x
2. $x$ amount of cookies split between 3 people
c) $\quad x / 3$
3. A worker earns $\$ 9$ for every hour they work
d) $-2 x+3$
4. Tom gives away half his apples and then buys one more
e) $9 x$
5. Jacob shared $x$ amount of stickers between his four friends
f) $\quad x-9$
6. Josh triples his money then buy a $\$ 1$ treat
g) $\quad x / 2+1$
7. A store has 8 cakes and bakes $x$ amount more
h) $-3 x-1$
i) $=7 x$
j) $-3+x$
k) $\quad x / 4$
8. Lisa doubles her money and then finds 3 dollars on the ground
9. Sarah had 10 candies and she gave $x$ amount away
10.A store had 9 socks and sold $x$ amount
I) $\quad 9-x$
11.Sam has $x$ amount of cookies and gives 9 away
12. Sally has $x$ amount of marbles and gets 3 more from friends

Write an equation and solve each word problem and show your steps.

1) Emily is renting a bike for a one-time fee of $\$ 25$ and then $\$ 15$ per day.
a) What is the relation (equation)?
b) What is the total cost if Emily rents for 4 days?
2) A company needs to lay off a quarter of its workers.
a) What is the relation (equation)?
b) How many workers will be left if there were originally 76 workers?
3) Josh is subscribing to a magazine that has a one-time registration fee of $\$ 18$ and a monthly subscription cost of \$12.
a) What is the relation (equation)?
b) What is the total cost if Josh subscribes for 3 months?'
4) If the temperature is at 20 degrees celsius and is decreasing by 2 degrees every hour.
a) What is the relation (equation)?
b) What will be the temperature after 12 hours?

Extending question
5)Mark is ordering pizza for a party. The delivery fee is $\$ 10$, and each pizza costs $\$ 15$. If Mark has \$175 how many pizzas can he order?

