



Warm Up - Sweet Shop Code

+ =
 + =
 - =
 + =
 - =
 X =
 X =
 X =

1	A	14	N
2	B	15	O
3	C	16	P
4	D	17	Q
5	E	18	R
6	F	19	S
7	G	20	T
8	H	21	U
9	I	22	V
10	J	23	W
11	K	24	X
12	L	25	Y
13	M	26	Z

Substituting in

How much would we earn for the following sales?

1) $a + b + c$

6) $6c + 4b$

2) $3a$

7) $6a + b + c$

3) $4c$

8) $5a + 2b + 3c$

4) $7a$

9) $12a + 8b + 7c$

5) $4a + 3b$

10) $20a + 30b + 100c$



The Profit Formula

$$P = R - C$$

- | | | | | |
|---------------------|----------------------|---------------------|---------------------|-----------------------|
| 1) $P =$ | 2) $P =$ | 3) $P =$ | 4) $P = \text{£}90$ | 5) $P = \text{£}28$ |
| $R = \text{£}60$ | $R = \text{£}74$ | $R = \text{£}83$ | $R =$ | $R =$ |
| $C = \text{£}20$ | $C = \text{£}22$ | $C = \text{£}34$ | $C = \text{£}30$ | $C = \text{£}32$ |
| | | | | |
| 6) $P = \text{£}85$ | 7) $P = \text{£}124$ | 8) $P = \text{£}62$ | 9) $P = -\text{£}8$ | 10) $P = -\text{£}34$ |
| $R = \text{£}100$ | $R = \text{£}150$ | $R = \text{£}84$ | $R = \text{£}20$ | $R =$ |
| $C =$ | $C =$ | $C =$ | $C =$ | $C = 50$ |

Making Expressions

F = cost of a fish

C = cost of a portion of chips

P = cost of a portion of peas

Cost of one fish, one chips and one peas

$$2F + 2C + 3P$$

Cost of 2 Fish and 2 Chips

$$2F + C$$

Cost of 2 fish and 3 peas

$$2F + 2C$$

Cost of 2 fish and 1 chips

$$2F + 3P$$

Cost of 2 Chips, 1 Fish and 3 peas

$$F + C + P$$

$$2(F + C)$$

The Avengers and the Infinity Sweets

Iron Man has some sweets

The Hulk has twice as many sweets as Iron Man

Black Widow has 7 more sweets than Iron Man

Altogether they have 39 sweets



How many sweets does Iron Man have?