- 1. The sum of two numbers is 130, while their difference is 38. Find the two numbers.
- 2. Becky and Peter's ages add to 53. If Becky is 3 years younger than Peter, what are their ages?
- 3. A necklace is made from 164 purple and blue beads. There are 8 more purple beads than blue beads. How many of each colour bead are there?



Ten Choco bars and six nutty bars cost £5. Three Choco bars and one Nutty bar cost £1.30. Find the cost of each chocolate bar.

- 5. Some chickens and pigs are in a field. How many of each animal are there if there are 32 heads and 80 legs in total?
- 6. Peter bought a mixture of large postcards (35p) and small postcards (29p). He bought 20 postcards in total, costing £6.28. How many of each size of postcard did he buy?
- 7. Find the value of each of the symbols in the grid:



Five apples and three pears cost 86 pence. Seven apples and five pears cost £1.30.
 Find the cost of each piece of fruit.



Two adults and three children went to the cinema, and the total cost was £32.40. Three adults and five children cost £51.20. What were the individual prices of adult and child tickets?

**10.** A slot machine takes only 20p and 50p coins. The machine contains a total of 140 coins worth £45.10. How many of each type of coin are in the machine?

















			100
Five apples and three	5a + 3p = 86	1	
pears cost 86 pence. Seven apples and five	7a + 5p = 130	2	
pears cost £1.30. Find the cost of each piece of fruit.	25a + 15p = 430	1 × 5	
	21a + 15p = 390	2 <b>x</b> 3	
	4 <i>a</i> = 40	1-2	
Let <i>a</i> be the number of	<i>a</i> = 10		
of pears.	$5 \times 10 + 3p = 86$	1	
	3p = 36		
Apples cost 10p, pears cost 12p.	<i>p</i> = 12		
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Two adults and three children went to the cinema, and the total cost was £32.40. Three adults and five children cost £51.20. What were the individual prices of adult and child tickets?	$2a + 3c = 3240  (1)$ $3a + 5c = 5120  (2)$ $6a + 9c = 9720  (1) \times 3$ $6a + 10c = 10240  (2) \times 2$ $c = 520  (2) - (1)$	
Let adults cost <i>a</i> pence and children cost <i>c</i> pence. Adults cost £8.40 and children cost £5.20.	$2a + 3 \times 520 = 3240$ (1) 2a = 1680 a = 840	
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A slot machine takes only 20p and 50p coins. The machine contains a total of 140 coins worth £45.10. How many of each type of coin are in the machine? Let t be the number of 20p coins and f be the number of 50p coins.	t + f = 140 (1) 20t + 50f = 4510 (2) 2t + 2f = 280 (1) × 2 2t + 5f = 451 (2) / 10 3f = 171 (2) - (1) f = 57 t + 57 = 140 (1) t = 83
There are 83 $\times$ 20p coins and 57 $\times$ 50p coins.	
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