

(1) T shirts cost £10 and Jumpers cost £15. How much does <b>x</b> Jumpers and <b>y</b> T shirts cost?
(2) The shop now starts to sell Jackets at £20 each. How much would <b>r</b> Jackets cost? How much would <b>p</b> Jumpers, <b>q</b> T shirts and 3 Jackets cost?
(3) Jim visits the shop. He takes £100 with him. He likes Jumpers, T shirts and Jackets. Explain why: $3p + 2q + 4r \leq 20$
(4) Based on all of the information so far, which of the following <b>may be</b> true: (i) $p \leq r$ (ii) $p + r + q < 5$ (iii) $15p + 20r > 100$
(5) A Ball park can hold 50 people. The number of children who attend is <b>x</b> , the number of adults who attend is <b>y</b> (i) Write an inequality that must be true
(6) Children are charged £5 and adults £2. Fred has a budget of £200 for his Daughters birthday. Explain why $10x + 4y \leq 400$
(7) Fred has an additional £50 for snacks. And will spend a maximum of £1 on child. <b>S</b> is the number of chew bars and <b>T</b> are the number of Tacos each child eats. Chew bars are 20p, Tacos are 25p Explain why: (i) $6 > S$ (ii) $0.25T + 0.2S \leq 1$
(8) Which of the following combinations (S,T) satisfy the inequality in question 7?: (5,0)                      (0,4)                      (4,1) (2,2)                      (1,4)                      (3,1)
* (9) State which scenario in question 8 is most favourable for Fred clearly outlining your justification.
(10) Fred ends up buying food for 10 children. And spending £10 3 will only each Chew bars and 2 will only eat Tacos. Using the information from question 7, explain why (i) $S \geq 3$ (ii) $T \geq 2$ (ii) $20S + 25T < 1001$

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