

Bryn Solution Seeker

Mr. Robinson goes out in the interval to buy one drink for each of the 10 people in the group and some ice cream tubs to share. He only has a £20 note to pay with. The prices of the drinks and ice creams are shown below.



All flavours only
£2.50 per tub



All flavours only
£1.50 per can

- Write a formula that Mr. Robinson could use to work out the total cost of drinks and ice creams.
- How many tubs of ice cream can he afford to buy?

Communicate

- How will I structure my answer?
- How will I display my answer

Identify

- What is the key information?
- What do I need to find out?
- What method/maths do I use?

Review

- Have I answered the question?
- Have I checked my work?

Answers

a) Cost = £2.50 x no. of ice cream tubs (T) + £1.50 x no. of drinks (D)

$$C = 2.5T + 1.5D$$

He must buy 10 drinks, so $C = 2.5T + 1.5 \times 10 = 2.5T + 15$

b) The total cost can be no more than £20, so

$$C = 20 = 2.5T + 15$$

$$20 - 15 = 2.5T$$

$$5 = 2.5T$$

$$T = 5/2.5 = 2$$

He can only afford 2 tubs of ice cream.