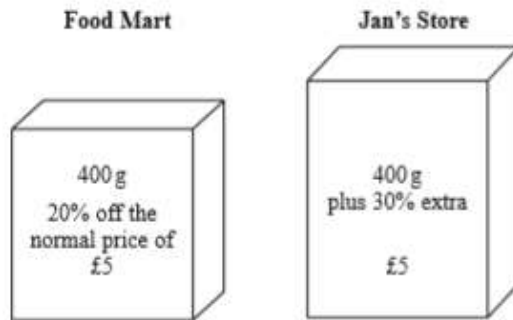


Edexcel Nov 18 P1 (4 marks)

18 Food Mart and Jan's Store sell boxes of the same type of breakfast cereal.

Each shop has a special offer.



Which box of cereal is the better value for money?  
 You must show your working.

<p><b>FOOD MART</b></p> <p>400g        £5        20% off price</p> <p>500p = 100%        50p = 10%        100p = 20%</p> <p>500p - 100p = 400p</p> <p>so 400g costs £4</p> <p>400g ÷ 400p = 1g/p</p> <p>so 1g costs <u>1p</u></p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 10px auto;"> <p>Food Mart is better value for money</p> </div>	<p><b>JAN'S STORE</b></p> <p>400g        £5        30% extra</p> <p>400g = 100%        40g = 10% } ×3        120g = 30%</p> <p>400g + 120g = 520g</p> <p>so 520g costs £5</p> <p>520g ÷ 500p = 1.04g/p</p> <p>so 1g cost <u>1.04p</u></p>
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**Your Turn:**

**What if.....?**

- .1. Both breakfast cereals had a mass of 750g**
- .2. Both breakfast cereals had a mass of 1kg**

**Answers:**

- 1. Food Mart costs 1.875 pence per gram  
Jan's Store costs 1.95 pence per gram  
So Food Mart is the best value for money**
- 2. Food Mart costs 2.5 pence per gram  
Jan's Store costs 2.6 pence per gram  
So Food Mart is the best value for money**