


## GCSE Business – Initial Numeracy Assessment

Q1	<p>Plaice Station is a fish and chip shop located by the sea in Whitby. It offers a wide choice of fresh fish for sale every day. The average selling price it charges per portion of fish and chips is £7.50. Plaice Station sells 200 portions of fish and chips on a Friday night, its busiest night of the week.</p> <p>Calculate the total amount of money Plaice Station takes on a Friday night from selling fish and chips.</p>
<p><b>Your workings:</b></p>	

Q2	<p>Plaice Station pays 20% of the selling price of a portion of its fish and chips to the fishermen for each piece of fish it buys from them.</p> <p>Using the above information and the information in question 1:</p> <p><b>a)</b> Calculate the amount Plaice Station pays the fishermen for one piece of fish.</p> <p><b>b)</b> Calculate the amount Plaice Station pays the fishermen for 350 pieces of fish to cover trading on both Friday and Saturday evenings.</p>
<p><b>Your workings:</b></p> <p>a)</p> <p>b)</p>	

Q3	<p>Affordable How-Sing is a housebuilding firm located in the Midlands. The business is very pleased with the increase in new house builds in the area. Last year, 217,350 new houses were built in the UK. This figure was 15% higher than the previous year.</p> <p>Calculate the number of houses that were built in the previous year.</p>
<p><b>Your workings:</b></p>	

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Q4	<p>Thai to Walk is a Thai restaurant that offers both a sit down and takeaway service.</p> <p>The pie chart below shows the breakdown of total customers that Thai to Walk usually serves on a weekday evening.</p> <div data-bbox="427 383 1310 840" style="text-align: center;"><p><b>Breakdown of total customers at Thai to Walk</b></p><table border="1" data-bbox="624 779 1123 808"><thead><tr><th>Customer Type</th><th>Percentage</th></tr></thead><tbody><tr><td>Restaurant customers</td><td>75</td></tr><tr><td>Takeaway customers</td><td>45</td></tr></tbody></table></div> <p>Using the pie chart, calculate the percentage of Thai to Walk's total customers that use the takeaway service on a weekday evening.</p>	Customer Type	Percentage	Restaurant customers	75	Takeaway customers	45
Customer Type	Percentage						
Restaurant customers	75						
Takeaway customers	45						

**Your workings:**

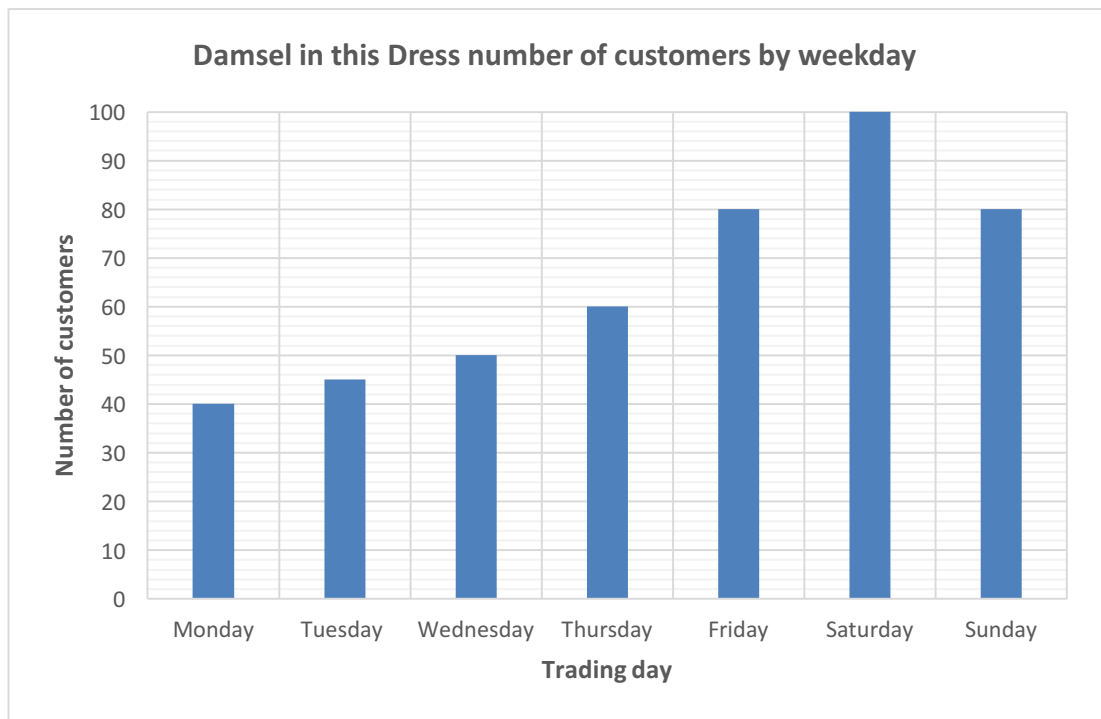
Q5	<p>Beauty and the Beach is a tanning salon that provides a spray tan service. The owner has recently decided to reduce its selling price of its most popular spray tan from £30 to £22.50 to try and attract more customers.</p> <p>Calculate the percentage decrease in the selling price of one spray tan.</p>
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**Your workings:**

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Q6

Damsel in this Dress is a clothing shop based in a tourist town in Wales. The store opens 7 days a week. The number of customers that it serves changes according to the day of the week, as shown in the bar chart below.



Using the bar chart:

- a) Calculate the average daily number of customers that the shop serves during the week.
- b) Calculate the difference between the number of customers the business serves on a Monday and a Saturday.

**Your workings:**

a)

b)

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Q7	<p>Pine-Oakio makes hand-made wooden furniture. Its most popular item is a chest of drawers which is priced at £250.00. The business asks customers to pay 15% of the selling price up front when placing an order. Customers then pay the remaining amount when the furniture is ready to be collected. Alternatively, when placing a furniture order, a customer can choose to pay the full amount straight away minus a 7.5% discount, which is offered by the business as a reward for early payment.</p> <p><b>a)</b> A business has been allocated £800 to buy three chest of drawers. Calculate how much of the £800 will be remaining if the business chooses to pay for all three chest of drawers in full at the time of placing the order.</p> <p><b>b)</b> Calculate the total amount a customer will pay on collection of two chest of drawers, if the customer chooses to pay a 15% deposit when placing an order.</p>
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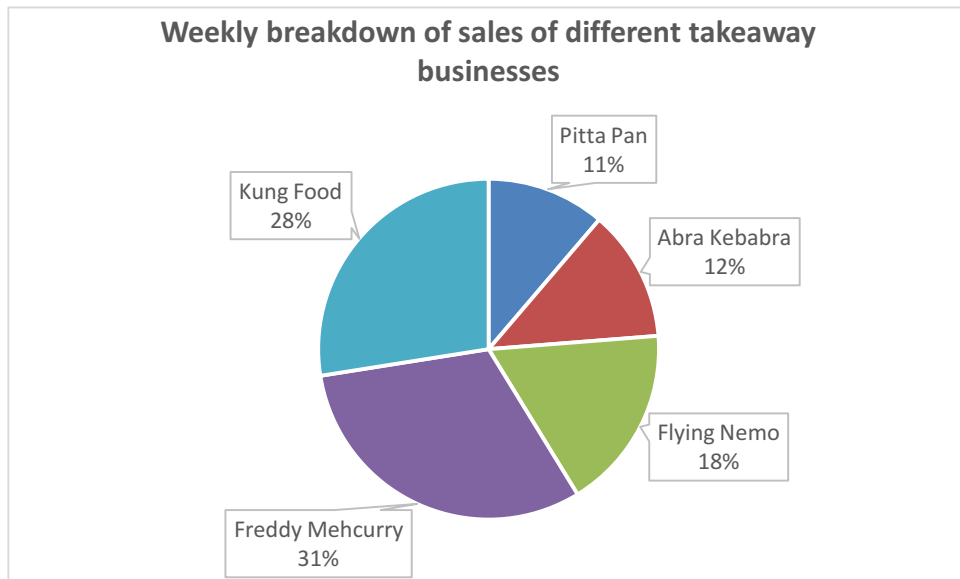
<b>Your workings:</b>	
a)	
b)	

Q8	<p>Amy Stake has been reviewing her new bank account which she opened in July since starting a summer job.</p> <table border="1" style="margin-left: auto; margin-right: auto;"><thead><tr><th></th><th>July (£)</th><th>August (£)</th></tr></thead><tbody><tr><th>Paid in</th><td>100.00</td><td>75.00</td></tr><tr><th>Paid out</th><td>75.00</td><td>60.00</td></tr></tbody></table> <p><b>a)</b> Calculate how much money Amy had in her bank account at the end of July.</p> <p><b>b)</b> Calculate how much money Amy had in her bank account at the end of August.</p>		July (£)	August (£)	Paid in	100.00	75.00	Paid out	75.00	60.00
	July (£)	August (£)								
Paid in	100.00	75.00								
Paid out	75.00	60.00								

<b>Your workings:</b>	
a)	
b)	

Q9

The pie chart below shows the proportion of total sales (in value) of five different takeaway businesses make in an average week. The total sales of the five businesses in an average week equals £20,000.



Using the pie chart:

- a) Identify the business which has the highest number of sales in an average week. Calculate the value of sales in £s for this business.
- b) Identify the business which has the lowest number of sales in an average week. Calculate the value of sales in £s for this business.
- c) Calculate the difference in sales value in £s between the two most popular takeaway choices.

**Your workings:**

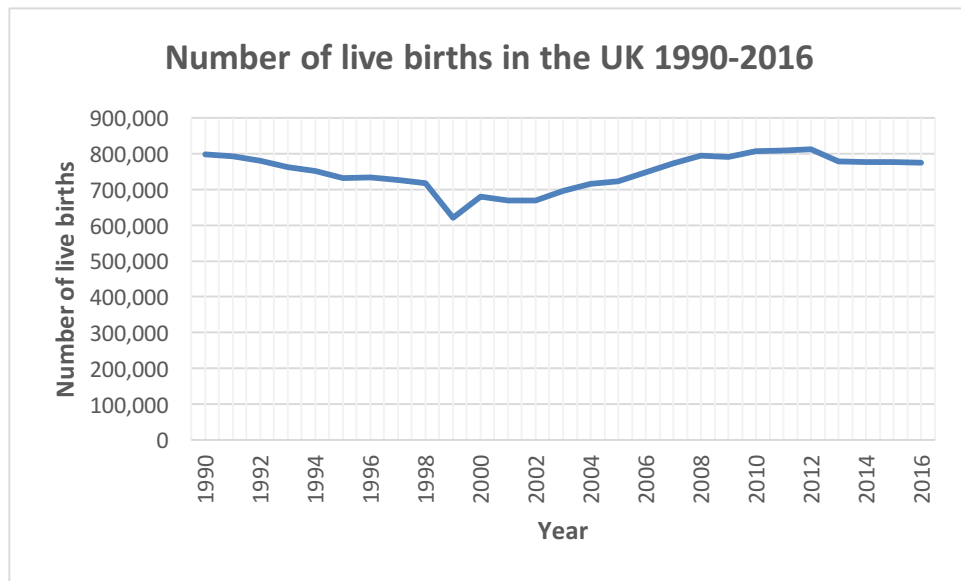
a)

b)

c)

Q10

Mayhem is a baby and toddler mobile soft play business. The owner has been monitoring the birth rates in the UK over time.



<https://www.statista.com/statistics/281981/live-births-in-the-united-kingdom-uk-1990/>

The owner has also been reviewing last week's customer feedback left on his website.

	Quality of service	Value for money
Excellent	15	6
Good	12	20
Satisfactory	8	8
Poor	0	1

Using the information provided:

- Identify the year which had the lowest number of live births in the UK.
- Calculate the percentage of total customers who left feedback on the website that rated Mayhem's value for money as either satisfactory or poor.

**Your workings:**

a)

b)