



Enter the Enterprise Race!

The school Easter Fayre planning is well under way and year 6 are being offered the chance to enter an enterprise competition.

Each entrant can develop a business idea for a stall to be run at the fayre.

You make choices along the way, competing with your friends in YOUR class to see who has the most profit at the end of this pack. Take care with your calculations, one decimal out of place could be the difference between GLORY and DISASTER!

Make Your Choice...

Which enterprise would you like to run? Read each description carefully.



Henna Tattoos

Your stall will offer whole hand, ring and bracelet patterns or small arm decorations.

Tick to show your choice

Design T-Shirts

Children can have their name put on the local football team's shirt. The football club have donated last seasons shirts.

Tick to show your choice

Handmade Soap

You will make and sell handmade soaps in a range of soothing scents.

Tick to show your choice

Vinyl Vases

Your eco friendly stall will recycle old vinyl records, melting them to shape into bowls, vases and bookends to sell.

Tick to show your choice

Now you have your choice, you will need to complete calculations using the details for your stall. Take note of your stall colour and work your way through the pack, take care every decision from what you spend to how much you charge will impact on your final score!!

GOOD LUCK!

Here's hoping you can beat the competition and come out on top!

YOUR ENTERPRISE ADVENTURE STARTS HERE!

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Reasoning and Problem Solving – Decimals – Year 6

1. Last year's budget has been increased by a huge 10x the amount! Last year each class was awarded £342.95 per class. In your class there are 30 children. Calculate your personal budget (rounding to the nearest pence).

2. Costs are listed below. Decide how to spend your budget dependant on the costs outlined for your choice of stall. There are expected to be one customer per 0.1 of an hour. You can run your stall for 4 hours. The head teacher has advised you account for $\frac{1}{4}$ extra customers in case of an unexpected rush. How many customers will you need to cater for?

3. You have been supplied with the following supply lists. Decide how much to order and calculate your costs. Make sure you remain within budget.

<u>Henna Tattoos</u>	
Henna pouches	£1.35
Baby wipes 1000	£1.49
Pattern Overlays	
Ring	£0.50
Bracelet	£0.75
Hand	£0.99
Arm	£0.64

<u>Design T-Shirts</u>	
Sticky alphabet letters	£1.50
100 per pack	
Sticky Number packs	
1 – 15	£0.75

<u>Handmade Soap</u>	
Oils	£2.56
Scents	£1.75
Moulds	£2.54
Bags	£3.99
Oats	£0.93

<u>Vinyl Vases</u>	
Records 2 nd hand	
Pack of 10	£2.34
Pack of 100	£4.50
Pack of 1000	£7.43

4. Now work out the cost to you per customer.

You have a choice of three price levels: bargain, basic or gold.



£3.50

£5.49

£5.99

Decide which you think will benefit your project the most, tick your choice.

Remember price might affect whether customers choose to come to your stall, as well as your profit.

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Reasoning and Problem Solving – Decimals – Year 6

5. The aim of your stall is to repay the original budget and make more money beyond that. How many customers will you need to pay back your loan amount?

The stalls are all set up and ready to run time to roll up your sleeves!
Make sure your customers get a good service!

6. For the last half hour of the fayre you decide to reduce your price by $\frac{1}{10}$ to get rid of all your stock and make as much money as you can in the last half hour.

Calculate your new price.



7. Time to count up your takings!

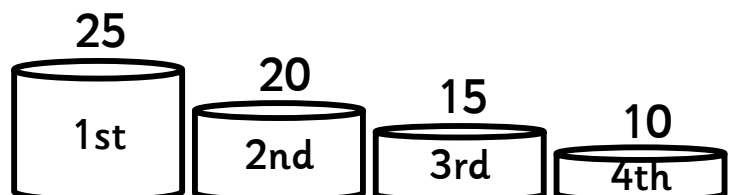
Remember your price level? Time to find out how your choice affected your takings. Use your cost per customer and price, plus the customer numbers below to calculate your profit...

Profit Level	Number of Customers	Profit
Bargain	43	
Basic	54	
Gold	36	

8. Points are awarded for customer satisfaction, happy customers return for more next time! Using a questionnaire, customer satisfaction was collected for each stall. Convert the results, presented in fractions, to decimals.

Henna Tattoos	$\frac{25}{50}$		$\frac{7}{50}$		$\frac{5}{50}$	
Design T Shirts	$\frac{20}{25}$		$\frac{5}{25}$		$\frac{0}{25}$	
Handmade Soaps	$\frac{7}{10}$		$\frac{1}{10}$		$\frac{1}{10}$	
Vinyl Vases	$\frac{30}{50}$		$\frac{10}{50}$		$\frac{0}{50}$	

Those with the most positive feedback () come first, the least 4th. Award yourself points based on your position.



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9. The next points were awarded from 3 ballots; governors, teachers and visitors voted for the winner based on stall design, popularity and professionalism.

The results are below.

Who gained the most votes?

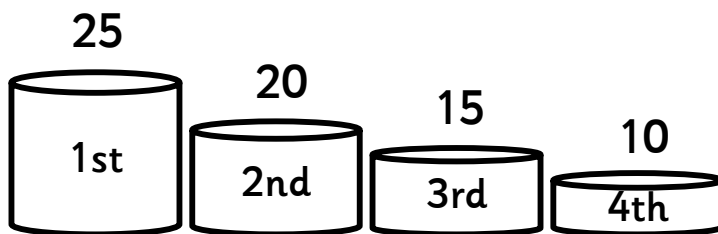
You will need to convert fractions to decimals to find out who gained the most.

FRACTIONS	Henna	Shirts	Soap	Vinyl
Governors	$\frac{2}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$
Teachers	$\frac{2}{10}$	$\frac{5}{10}$	$\frac{2}{10}$	$\frac{1}{10}$
Visitors	$\frac{4}{50}$	$\frac{4}{50}$	$\frac{9}{25}$	$\frac{18}{25}$

DECIMALS	Henna	Shirts	Soap	Vinyl
Governors				
Teachers				
Visitors				

Convert each vote to decimals to compare and order each stall 1st to 4th.

Now award points to yourself dependent on the position of your stall in question 9. Add these to your points from question 8 (e.g. 1st in q8 25, 2nd in q9 20, overall points 45.)



Final results!

10. To calculate your final score in the competition multiply your profit by the sum of your scores in question 8 and 9 this is your final score.



Compare with your classmates and see who has run the most successful stall. Good luck hope you come out on top!