



Your Mission:



Calculate your Way
to New Libraries for
Reading School District

Reading School District wants every school to have its own school library, full of exciting books that everyone wants to read.

Please help them on their way!

The table below tells you how many books each school already has. It also tells you how many books they want to have.

Use this information to calculate how many more books each class needs to buy.

	Number of Books we Have:	Number of Books we want:	Number of Books to buy:
Holburn PS	342	2000	
Tollcross PS	129	1000	
Inchburn PS	540	2000	
Elgin PS	480	2000	
Surrey PS	763	2000	
Thomson PS	1476	2500	
St. Mark's PS	1870	2500	

At the start of this Mission, how many books do the Primary Schools have all together? _____

How many books do the schools want to have all together when this Mission is finished? _____

School Libraries

Reading School District wants to make sure that each school has up to date books and many different genres of books. Use the information below to calculate how many of each different book genre the District needs to buy. Once they are bought, these books will be shared between the 7 schools in the district.

Book Genres	Number of Books of Each Genre the District Has:	Number of Books of Each Genre the District Wants:	Number of Books of Each Genre still to Buy:
Comedy	470	1400	
Action/ Adventure	360	1750	
Graphic Novels	125	1000	
Biographies	280	1000	
Horror	468	1100	
Science Fiction	220	900	
Fantasy	515	1350	
Mystery	263	1000	
Realistic Fiction	498	1200	
Historical Fiction	140	800	
Non-Fiction	670	2500	
Total:	4009		

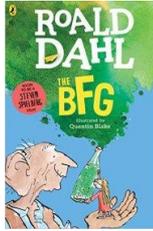
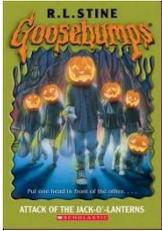
When the library has bought the new books it wants, how many of the following book types will it have?

1. Horror and Mystery _____
2. Realistic and Historical Fiction _____
3. Fantasy and Action/Adventure _____

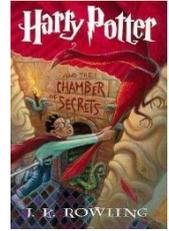


Your Mission - Workspace

School Libraries - Workspace



Keeping Track!



Thomson PS has been busy organising the books they have and deciding how many books they still need. They have also given away some books the school thought were old and boring.

Please complete the following chart so the School District knows what Thomson PS has been doing!

Book Genres	Number of Books Thomson PS Had:	Number of Books Given Away:	Number of Books Thomson PS Has Now:
Comedy	267	139	
Action/ Adventure	135		87
Graphic Novels		138	85
Biographies	203		76
Horror	538	380	
Fantasy		255	386
Realistic Fiction	632		170
Totals:			

1. How many Graphic Novels and Fantasy books did Thomson PS have before they gave some away?
2. How many Horror and Fantasy books does Thomson PS have now?
3. Which genre of book did they give away the most of?
4. How many Action/Adventure and Biographies did the school give away all together?

Getting the Best Deals



Holburn, Tollcross and Inchburn Primary Schools have decided that they want to buy the following books:

1. 10 sets of the **Harry Potter** series (7 books per series)
2. 5 sets of the **Alex Rider** series (12 books per series)
3. 6 set of **Captain Underpants** books (12 books)
4. 4 sets of the **Percy Jackson** series (10 books per series)
5. 100 **Goosebump** books (these can be bought in sets of 10)

These books can be bought individually or in boxed sets. Use the following table to help the schools find out how much they can save by choosing the best deal.

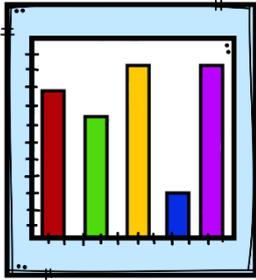
Book Series	Cost for individual books	Cost for one boxed set
Harry Potter	£7/book	£28/set
Alex Rider	£6/book	£60/set
Captain Underpants	£4/book	£20/set of 6 books
Percy Jackson	£6/book	£25/set of 5 books
Goosebumps	£5/book	£38/set of 10 books

Calculate the cost of the following:

1. How much would it cost to buy all 10 Harry Potter sets if you buy the books individually? _____ How much would it cost to buy all 10 Harry Potter sets as sets? _____ How much do the schools save if they buy sets? _____
2. How much would 100 Goosebump books cost if bought individually? _____ How much would they cost if bought in sets? _____ How much would the schools save by buying the Goosebump sets? _____
3. How much would the schools save if they buy 4 Percy Jackson sets as complete sets rather than individual books? _____

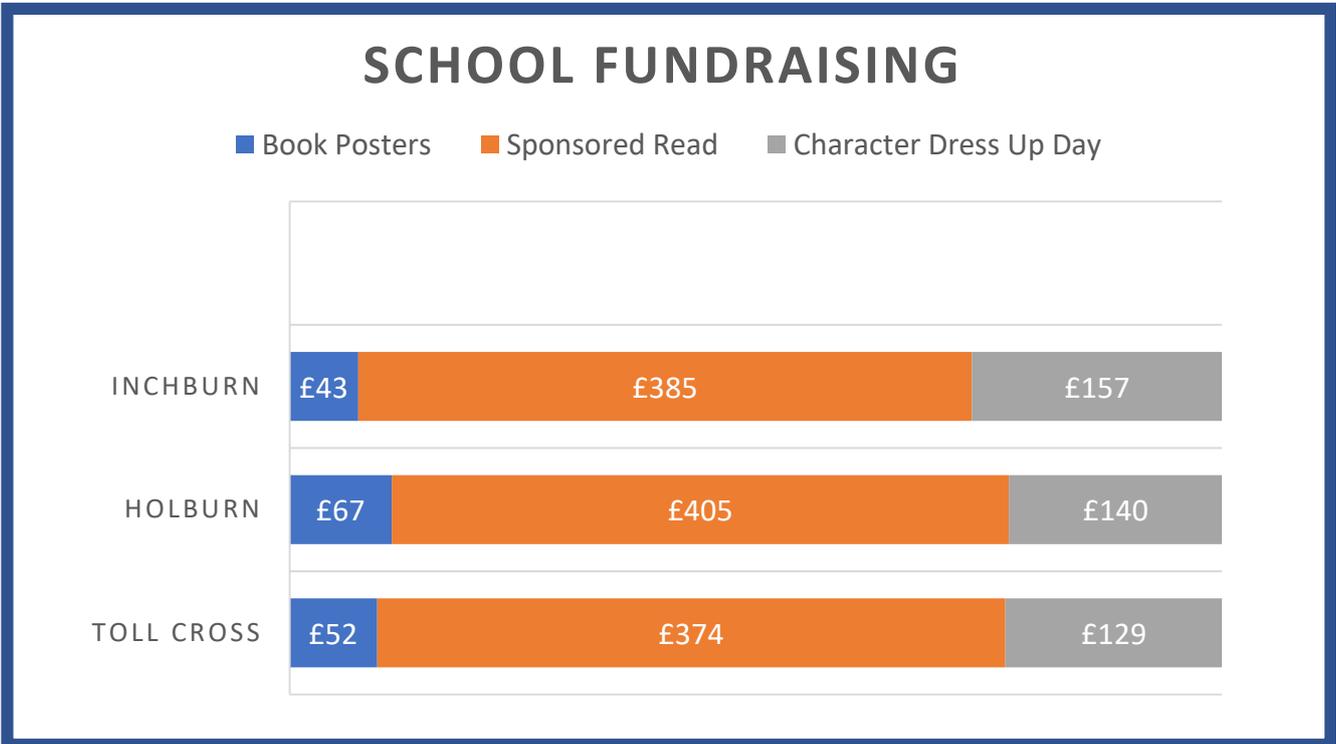
Keeping Track - Workspace

Getting the Best Deals - Workspace



School Fundraising

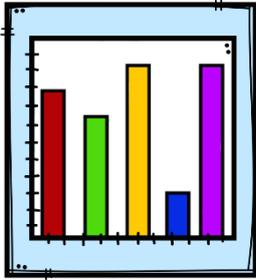
The following bar chart shows how much money three different Primary Schools raised towards new books for their class libraries:



Calculate the cost of the following:

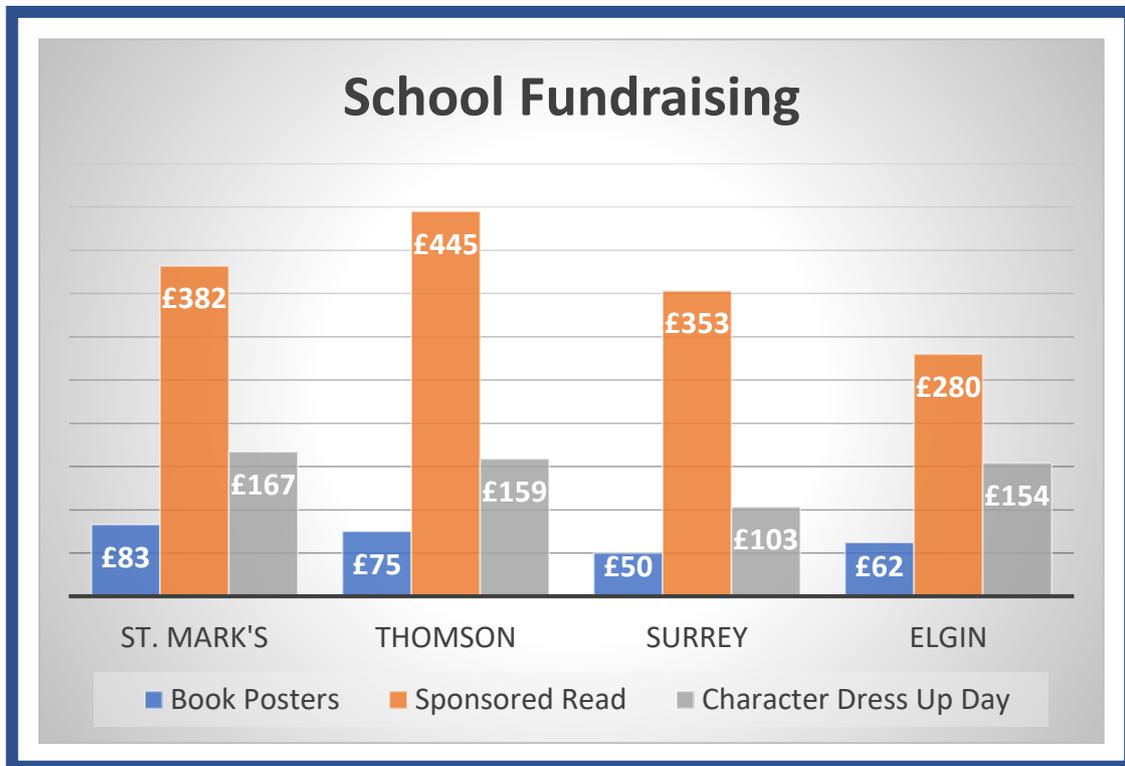
- How much did Inchburn raise all together? _____
- How much did Holburn raise all together? _____
- How much did TollCross raise all together? _____
- Which school raised the most from the Book Posters?

- Which school raised the least from the Sponsored Read? _____
- How much more did the top school raise than the bottom school from all 3 fundraisers? _____
- How much money did all 3 schools raise all together?



School Fundraising

The following bar chart shows how much money 4 of the schools raised towards new books for class libraries:



Calculate the cost of the following:

- How much did St. Mark's PS raise all together? _____
- How much did Thomson PS raise all together? _____
- How much did Surrey PS raise all together? _____
- How much did Elgin PS raise all together? _____
- How much more did Thomson raise from the Sponsored Read than Elgin? _____
- How much more money would Surrey need to raise from Sponsored Reading to match Thomson? _____
- How much was raised altogether from the Sponsored Read? _____
- Which activity raised the least money? _____

School Fundraising – Workspace

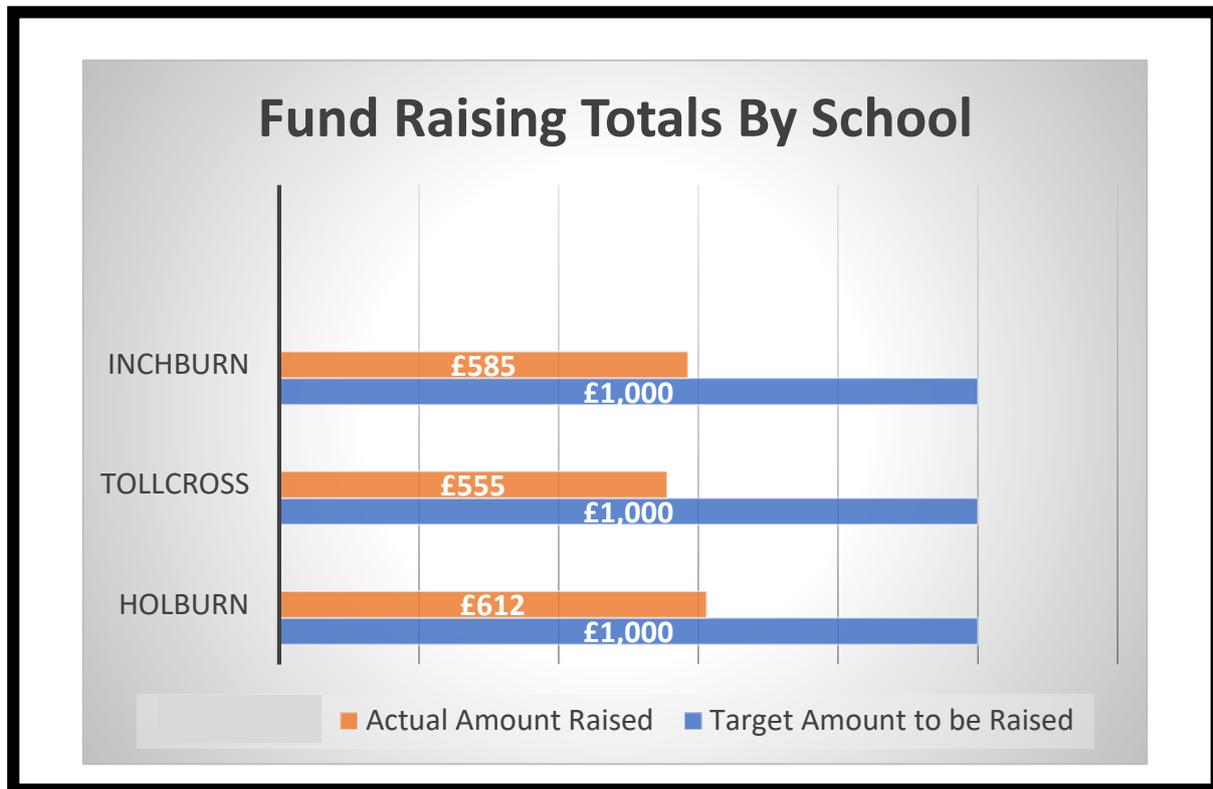
Inchburn, Holburn, Tollcross

School Fundraising – Workspace

St. Mark's, Thomson, Surrey, Elgin

Fundraising Targets

Holburn, Tollcross and Inchburn Primary Schools have finally completed all of their fundraising. These schools had a target of raising £3000. They would reach this target if each school raised £1000.



Using the bar graph above, answer the following questions:

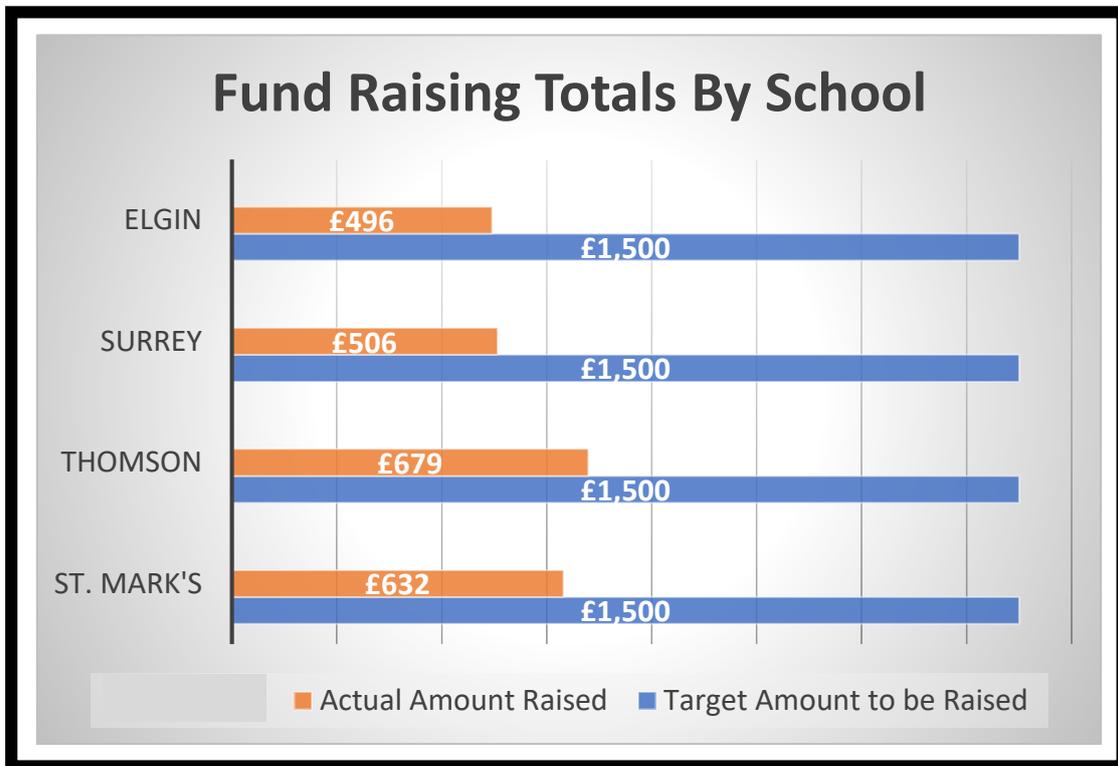
1. How much money was raised by all 3 schools? _____
2. What is the difference between the **total** Target amount and the **total** actual amount raised by all 3 classes?

3. What is the difference between Inchburn's target amount and the actual amount of money they raised?

4. How much more money does Tollcross need to raise to reach their target? _____
5. If Holburn collected £175 more pounds, how far away from their target would they be? _____

Fundraising Targets

Reading School District has completed all of their fundraising. The 4 schools below set a target of raising £6000 all together. They would reach this target if each school raised £1500.



Using the bar graph above, answer the following questions:

1. How much money was raised by all 4 schools? _____
2. How much more money do they need to raise to hit their total target of £6000? _____
3. How much more money did Thomson raise than Surrey?

4. What is the difference between how much St. Mark's raised and their target amount? _____
5. If Elgin collected £350 more pounds, how far away from their target would they be? _____

Fundraising Targets – Workspace

Inchburn, Holburn, Tollcross

Fundraising Targets – Workspace

St. Mark's, Thomson, Surrey, Elgin



Who has the Best School Library?

St. Mark's, Thomson and Surrey Primary Schools have bought new books for their libraries! The chart below gives information about which book genres they chose and how many of each genre they bought.

Book Genres	St. Mark's	Thomson	Surrey
Comedy	58	80	94
Action/ Adventure	105	128	165
Fantasy	67	158	70
Horror	146	95	105
Non-Fiction	50	37	68

Using the above chart, answer the following questions:

- How many books did each school buy:
 - St. Mark's: _____
 - Thomson: _____
 - Surrey: _____
- St. Mark's wants to have as many Comedy books as Thomson. How many more should they buy? _____
- How many Action/Adventure books have the schools bought all together? _____
- Which book genre was most popular in these schools (which genre was bought the most)? _____
- How many books did the schools buy all together? _____



Keep Track of Your Spending

The table below shows how much money three schools raised and how much they have already spent on new books.

Income	Holburn	Inchburn	Tollcross
Money Raised	£612	£585	£555
Money Spent	£280	£432	£347

Using the above chart, answer the following questions:

- How much money does each school have left:
 - Holburn: _____
 - Inchburn: _____
 - Tollcross: _____
- If Holburn spends another £160 on books, how much money will they have left then? _____
- How much money have the 3 schools spent all together?

- Inchburn wants to buy 4 more sets of books. If each set costs £25, do they have enough money left? _____
How much extra/too little do they have? _____
- Tollcross wants to buy 30 more books. If each book costs £6, do they have enough money left? _____ How much extra/too little do they have? _____

Who has the Best Library – Workspace

Keep Track of Your Spending - Workspace

Holburn, Inchburn, Tollcross



Keep Track of Your Spending

The table below shows how much the other four schools in the District raised and how much they have already spent on new books.

Income	Elgin	Surrey	Thomson	St. Mark's
Money Raised	£496	£506	£679	£632
Money Spent	£480	£235	£557	£548

Using the above chart, answer the following questions:

- How much money does each school have left?
 - Elgin: _____
 - Surrey: _____
 - Thomson: _____
 - St. Mark's: _____
- How much money do the four schools have left to spend all together? _____
- Surrey has ordered 5 more book sets. If each set cost £20, how much money does Surrey have left now? _____
- After they spent £548, a grandparent donated another £80 to St. Mark's. How much money do they have now? _____
- Thomson raised the most money and Elgin raised the least. How much more money did Thomson raise than Elgin?

- If Thomson spends £65 more, how much money will it have left? _____

Fundraising Champions!



Champion Fundraiser	Money raised
Holburn	£157
Tollcross	£103
Inchburn	£88
Elgin	£124
Surrey	£92
Thomson	£203
St. Mark's	£96

This table shows how much the top fundraiser from each school raised. Use the table and the clues below to figure out which class each Fundraising Champion is in.

My name is Sue. I raised £54 more than the Tollcross champion.

I go to _____.

My name is Mark. I raised £15 less than the Tollcross champion.

I go to _____.

I'm Josh. If I raise another £97, I'll have raised £200.

I go to _____.

My name is Emma. I raised £107 more than the St. Mark's champion.

I go to _____.

I'm Maria. I raised £28 less than the Elgin champion.

I go to _____.

I'm Bob. The difference between the amount I raised and the amount the Surrey champion raised is £32.

I go to _____.

My name is David. The difference between the amount I raised and £150 is £58.

I go to _____.

Keep Track of Your Spending - Workspace

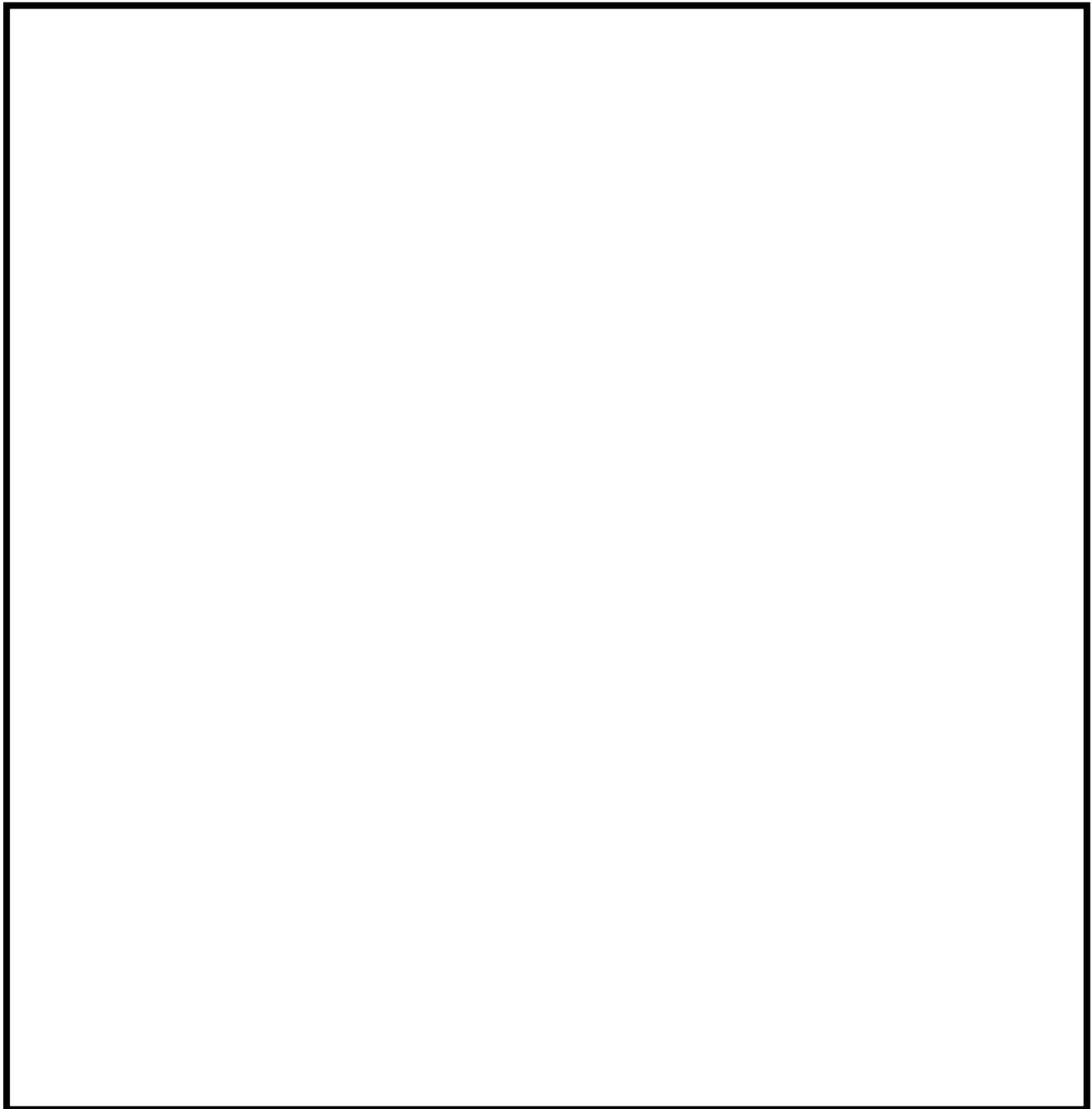
St. Mark's, Thomson, Surrey, Elgin

Fundraising Champions – Workspace

Design Your Own Library

In the box below, design your own library. Your library must have:

- Comfortable seating areas (at least 3)
- Bookshelves (minimum: 4)
- Books arranged so that similar books are grouped together



When you have designed your library, create an exciting, colourful poster to advertise your library and your books to other people!



Your Mission:

Answer Key

Calculate your Way
to New Libraries for
Reading School District



Reading School District wants every school to have its own school library, full of exciting books that everyone wants to read.

Please help them on their way!

The table below tells you how many books each school already has. It also tells you how many books they want to have.

Use this information to calculate how many more books each class needs to buy.

	Number of Books we Have:	Number of Books we want:	Number of Books to buy:
Holburn PS	342	2000	1658
Tollcross PS	129	1000	871
Inchburn PS	540	2000	1460
Elgin PS	480	2000	1520
Surrey PS	763	2000	1237
Thomson PS	1476	2500	1024
St. Marks PS	1870	2500	630

At the start of this Mission, how many books do the Primary Schools have all together? 5600

How many books do the schools want to have all together when this Mission is finished? 14 000

School Libraries Answer Key

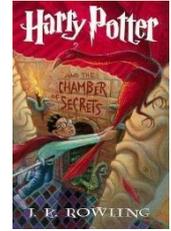
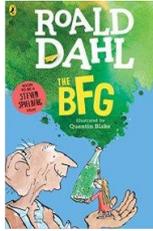
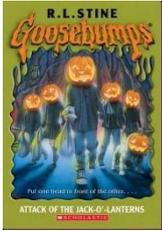
Reading School District wants to make sure that each school has up to date books and many different genres of books. Use the information below to calculate how many of each different book genre the District needs to buy. Once they are bought, these books will be shared between the 7 schools in the district.

Book Genres	Number of Books of Each Genre the District Has:	Number of Books of Each Genre the District Wants:	Number of Books of Each Genre still to Buy:
Comedy	470	1400	930
Action/ Adventure	360	1750	1390
Graphic Novels	125	1000	875
Biographies	280	1000	720
Horror	468	1100	632
Science Fiction	220	900	680
Fantasy	515	1350	835
Mystery	263	1000	737
Realistic Fiction	498	1200	702
Historical Fiction	140	800	660
Non-Fiction	670	2500	1830
Total:	4009	14 000	9991

When the library has bought the new books it wants, how many of the following book types will it have?

1. Horror and Mystery 2100
2. Realistic and Historical Fiction 2000
3. Fantasy and Action/Adventure 3100





Keeping Track!

Answer Key

Thomson PS has been busy organising the books they have and deciding how many books they still need. They have also given away some books the school thought were old and boring.

Please complete the following chart so the School District knows what Thomson PS has been doing!

Book Genres	Number of Books Thomson PS Had:	Number of Books Given Away:	Number of Books Thomson PS Has Now:
Comedy	267	139	128
Action/Adventure	135	48	87
Graphic Novels	223	138	85
Biographies	203	127	76
Horror	538	380	158
Fantasy	641	255	386
Realistic Fiction	632	462	170
Totals:	2639	1549	1090

- How many Graphic Novels and Fantasy books did Thomson PS have before they gave some away? **864 books**
- How many Horror and Fantasy books does Thomson PS have now? **544 books**
- Which genre of book did they give away the most of?
Realistic Fiction
- How many Action/Adventure and Biographies did the school give away all together? **175 books**

Answer Key

Getting the Best Deals



Holburn, Tollcross and Inchburn Primary Schools have decided that they want to buy the following books:

1. 10 sets of the **Harry Potter** series (7 books per series)
2. 5 sets of the **Alex Rider** series (12 books per series)
3. 6 set of **Captain Underpants** books (12 books)
4. 4 sets of the **Percy Jackson** series (10 books per series)
5. 100 **Goosebump** books (these can be bought in sets of 10)

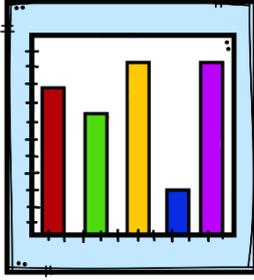
These books can be bought individually or in boxed sets. Use the following table to help the schools find out how much they can save by choosing the best deal.

Book Series	Cost for individual books	Cost for one boxed set
Harry Potter	£7/book	£28/set
Alex Rider	£6/book	£60/set
Captain Underpants	£4/book	£20/set of 6 books
Percy Jackson	£6/book	£25/set of 5 books
Goosebumps	£5/book	£38/set of 10 books

Calculate the cost of the following:

1. How much would it cost to buy all 10 Harry Potter sets if you buy the books individually? £490 How much would it cost to buy all 10 Harry Potter sets as sets? £280 How much do the schools save if they buy sets? £210
2. How much would 100 Goosebump books cost if bought individually? £500 How much would they cost if bought in sets? £380 How much would the schools save by buying the Goosebump sets? £120
3. How much would the schools save if they buy 4 Percy Jackson sets as complete sets rather than individual books? £40

Answer Key

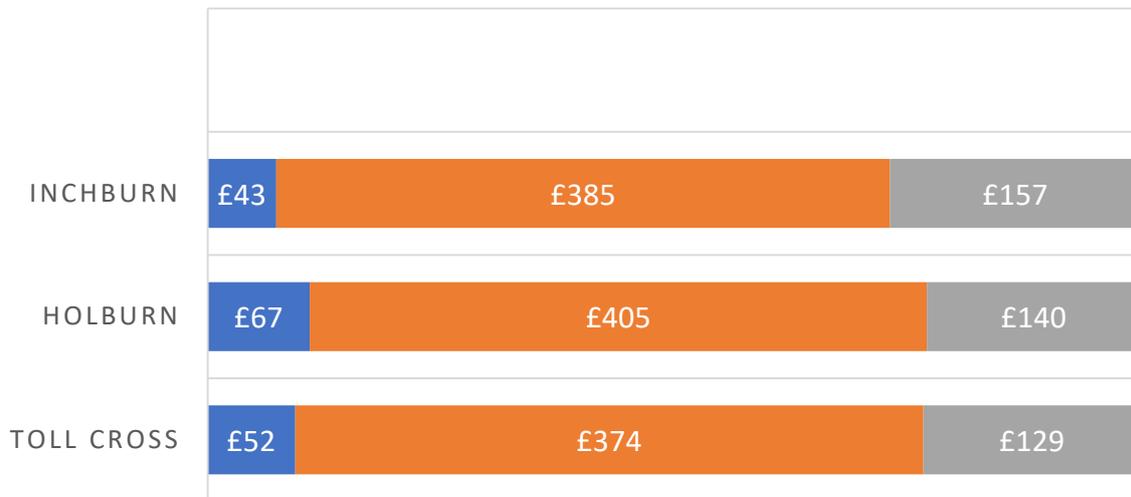


School Fundraising

The following bar chart shows how much money three different Primary Schools raised towards new books for their class libraries:

SCHOOL FUNDRAISING

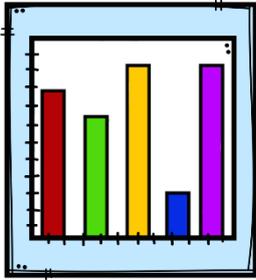
■ Book Posters ■ Sponsored Read ■ Character Dress Up Day



Calculate the cost of the following:

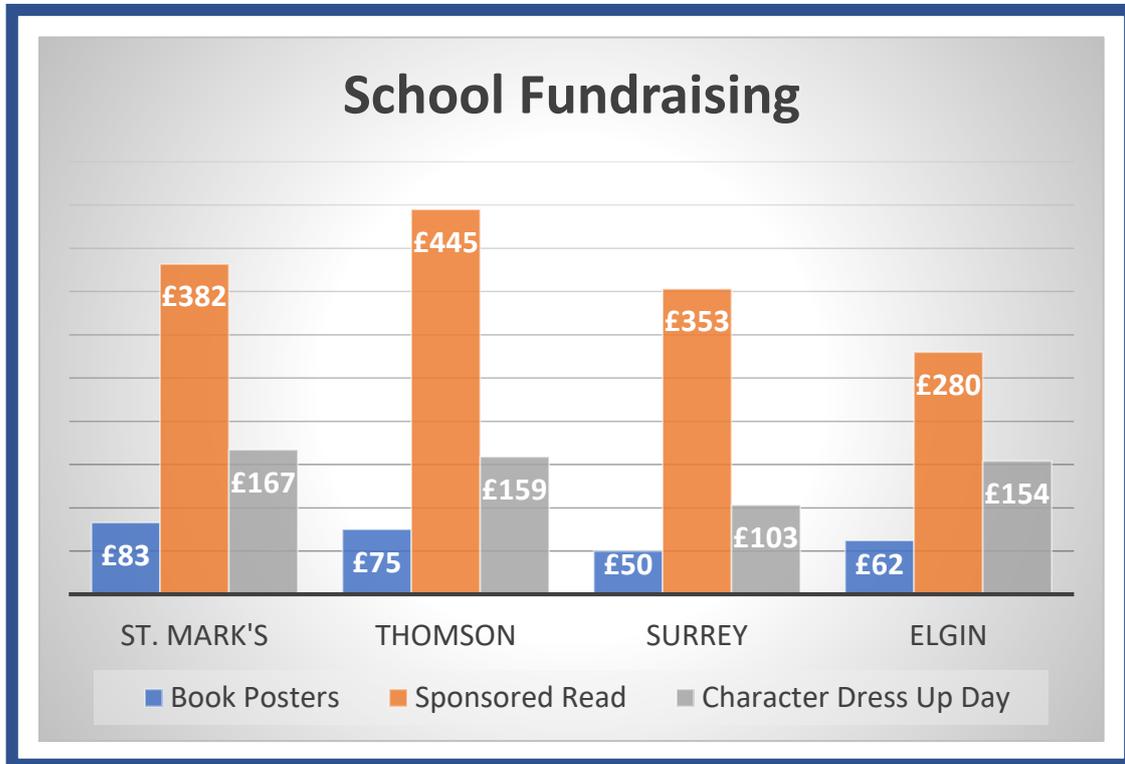
1. How much did Inchburn raise all together? £585
2. How much did Holburn raise all together? £612
3. How much did TollCross raise all together? £555
4. Which school raised the most from the Book Posters?
Holburn
5. Which school raised the least from the Sponsored Read?
Tollcross
6. How much more did the top school raise than the bottom school from all 3 fundraisers? £57 more
7. How much money did all 3 schools raise all together?
£1752

Answer Key



School Fundraising

The following bar chart shows how much money 4 of the schools raised towards new books for class libraries:



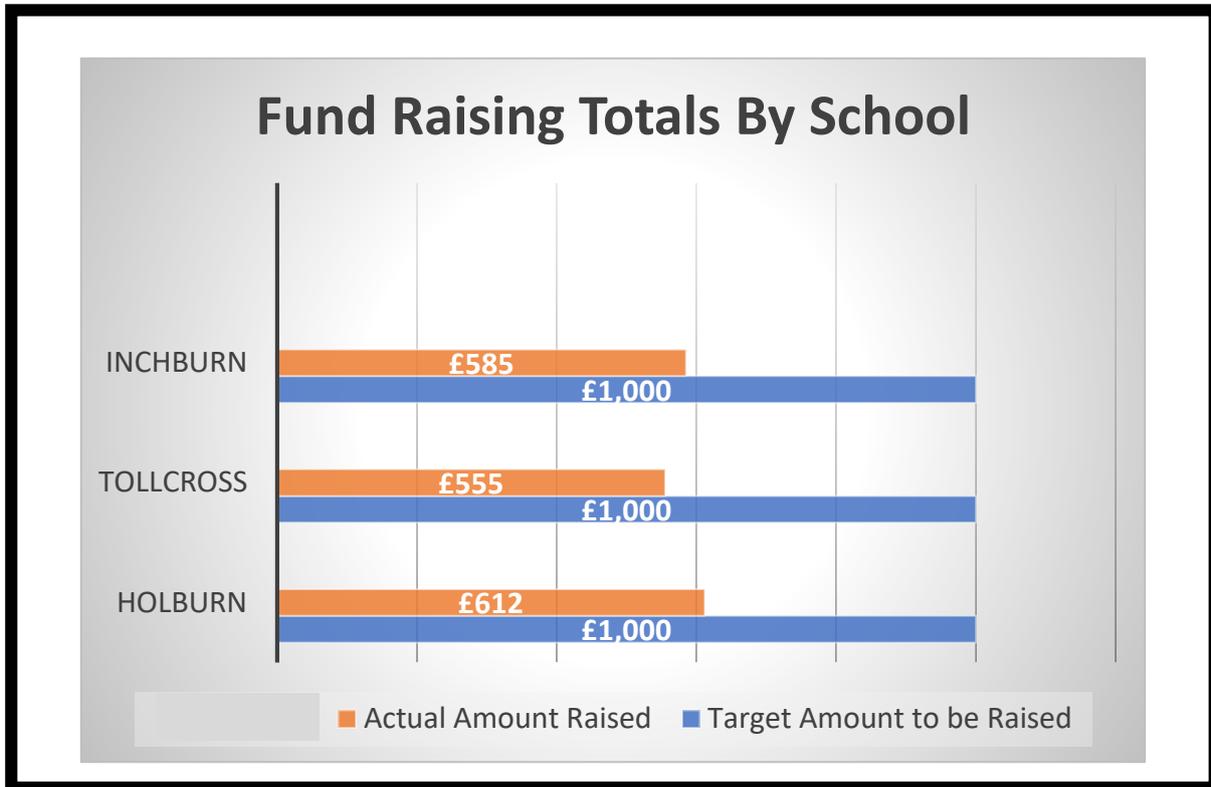
Calculate the cost of the following:

1. How much did St. Mark's PS raise all together? £632
2. How much did Thomson PS raise all together? £679
3. How much did Surrey PS raise all together? £506
4. How much did Elgin PS raise all together? £496
5. How much more did Thomson raise from the Sponsored Read than Elgin? £165
6. How much more money would Surrey need to raise from Sponsored Reading to match Thomson? £92
7. How much was raised altogether from the Sponsored Read? £1460
8. Which activity raised the least money? Book Posters

Answer Key

Fundraising Targets

Holburn, Tollcross and Inchburn Primary Schools have finally completed all of their fundraising. These schools had a target of raising £3000. They would reach this target if each school raised £1000.



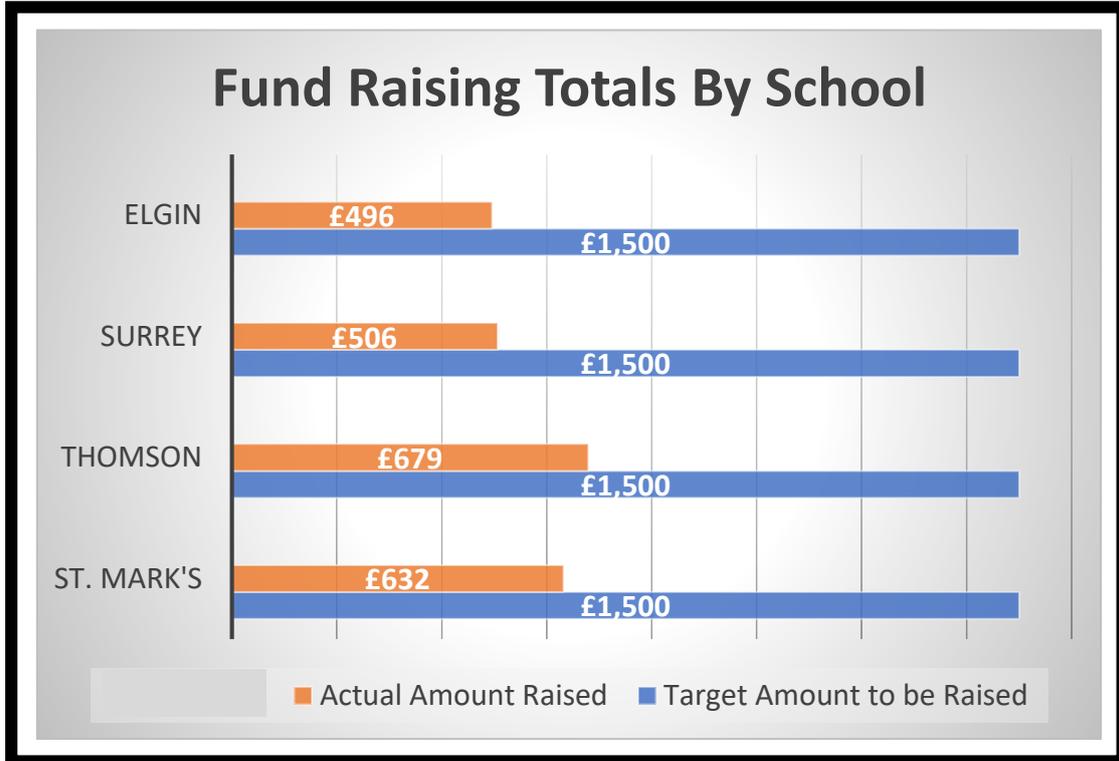
Using the bar graph above, answer the following questions:

1. How much money was raised by all 3 schools? £1752
2. What is the difference between the **total** Target amount and the **total** actual amount raised by all 3 classes?
£1248
3. What is the difference between Inchburn's target amount and the actual amount of money they raised?
£415
4. How much more money does Tollcross need to raise to reach their target? £445
5. If Holburn collected £175 more pounds, how far away from their target would they be? £213

Answer Key

Fundraising Targets

Reading School District has completed all of their fundraising. The 4 schools below set a target of raising £6000 all together. They would reach this target if each school raised £1500.



Using the bar graph above, answer the following questions:

1. How much money was raised by all 4 schools? £2313
2. How much more money do they need to raise to hit their total target of £6000? £3687
3. How much more money did Thomson raise than Surrey?
£173
4. What is the difference between how much St. Mark's raised and their target amount? £868
5. If Elgin collected £350 more pounds, how far away from their target would they be? £654

Answer Key



Who has the Best School Library?

St. Mark's, Thomson and Surrey Primary Schools have bought new books for their libraries! The chart below gives information about which book genres they chose and how many of each genre they bought.

Book Genres	St. Mark's	Thomson	Surrey
Comedy	58	80	94
Action/ Adventure	105	128	165
Fantasy	67	158	70
Horror	146	95	105
Non-Fiction	50	37	68

Using the above chart, answer the following questions:

1. How many books did each school buy:

➤ St. Mark's: 426

➤ Thomson: 498

➤ Surrey: 502

2. St. Mark's wants to have as many Comedy books as Thomson. How many more should they buy? 22

3. How many Action/Adventure books have the schools bought all together? 398

4. Which book genre was most popular in these schools (which genre was bought the most)? Action/Adventure

5. How many books did the schools buy all together? 1426

Answer Key



Keep Track of Your Spending

The table below shows how much money three schools raised and how much they have already spent on new books.

Income	Holburn	Inchburn	Tollcross
Money Raised	£612	£585	£555
Money Spent	£280	£432	£347

Using the above chart, answer the following questions:

1. How much money does each school have left:

➤ Holburn: £332

➤ Inchburn: £153

➤ Tollcross: £208

2. If Holburn spends another £160 on books, how much money will they have left then? £172

3. How much money have the 3 schools spent all together?

£1059

4. Inchburn wants to buy 4 more sets of books. If each set costs £25, do they have enough money left? Yes

How much extra/too little do they have? £53 extra

5. Tollcross wants to buy 30 more books. If each book costs £6, do they have enough money left? Yes How

much extra/too little do they have? £28 extra

Answer Key



Keep Track of Your Spending

The table below shows how much the other four schools in the District raised and how much they have already spent on new books.

Income	Elgin	Surrey	Thomson	St. Mark's
Money Raised	£496	£506	£679	£632
Money Spent	£480	£235	£557	£548

Using the above chart, answer the following questions:

- How much money does each school have left?
 - Elgin: _____
 - Surrey: _____
 - Thomson: _____
 - St. Mark's: _____
- How much money do the four schools have left to spend all together? _____
- Surrey has ordered 5 more book sets. If each set cost £20, how much money does Surrey have left now? _____
- After they spent £548, a grandparent donated another £80 to St. Mark's. How much money do they have now? _____
- Thomson raised the most money and Elgin raised the least. How much more money did Thomson raise than Elgin?

- If Thomson spends £65 more, how much money will it have left? _____

Answer Key

Fundraising Champions!



Champion Fundraiser	Money raised
Holburn	£157
Tollcross	£103
Inchburn	£88
Elgin	£124
Surrey	£92
Thomson	£203
St. Mark's	£96

This table shows how much the top fundraiser from each school raised. Use the table and the clues below to figure out which class each Fundraising Champion is in.

My name is Sue. I raised £54 more than the Tollcross champion.

I go to **Holburn**.

My name is Mark. I raised £15 less than the Tollcross champion.

I go to **Inchburn**.

I'm Josh. If I raise another £97, I'll have raised £200.

I go to **Tollcross**.

My name is Emma. I raised £107 more than the St. Mark's champion.

I go to **Thomson**.

I'm Maria. I raised £28 less than the Elgin champion.

I go to **St. Mark's**.

I'm Bob. The difference between the amount I raised and the amount the Surrey champion raised is £32.

I go to **Elgin**.

My name is David. The difference between the amount I raised and £150 is £58.

I go to **Surrey**.