1. This is $\frac{3}{4}$ of a set of beanbags.

How many were in the whole set?
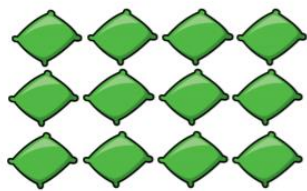
This represents 12.

If there were a whole set, there would be 4 more.

Therefore, in total, there were 16 in the whole set.

2. Ron has £28

On Friday, he spent $\frac{1}{4}$ of his money.

On Saturday, he spent $\frac{2}{3}$ of his remaining money and gave £2 to his sister.

On Sunday, he spent $\frac{1}{5}$ of his remaining money.

How much money does Ron have left?

What fraction of his original amount is this?

On Friday, he spent £7. So £21 left.

On Saturday, he spent £14 and gave £2. So he started with £21 and gave £16 away, leaving him with £5.

On Sunday, he spent £1.

He was left with £4.

Of his original amount this is $\frac{1}{7}$.

3.) Two children are reading a book that has 80 pages. They are discussing who has read more of the book. Who has read the greater amount of the book? Use bar models to explain your reasoning.

Anya
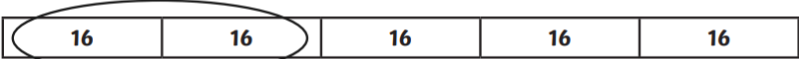I've read $\frac{1}{2}$ of the book so I've read the greater amount.

Tina
I've read $\frac{2}{5}$ of the book so I've read the greater amount.

40	40

$\frac{1}{2}$ of 80 is 40.
80 ÷ 2 = 40
Anya has read 40 pages of the book.

16	16	16	16	16

$\frac{1}{5}$ of 80 is 16. $\frac{2}{5}$ of 80 is 32.
80 ÷ 5 = 16
16 × 2 = 32
Tina has read 32 pages of the book.

40 is 8 more than 32. Therefore, Anya has read the greater amount of the book.

4. Kirk has been finding fractions of 48. He says that all of the answers to these fractions will give an answer that is a multiple of 4.

$\frac{1}{4}$ of 48 $\frac{1}{8}$ of 48 $\frac{3}{8}$ of 48

$\frac{2}{6}$ of 48 $\frac{1}{2}$ of 48 $\frac{1}{12}$ of 48

$\frac{2}{3}$ of 48 $\frac{2}{8}$ of 48

Do you agree? Explain your reasoning.

Kirk is incorrect. Although most of the answers are multiples of 4, some of them are not. The following answers are multiples of 4:

$\frac{1}{4}$ of 48 is 12. $\frac{2}{8}$ of 48 is 12. $\frac{2}{6}$ of 48 is 16.

$\frac{1}{2}$ of 48 is 24. $\frac{2}{3}$ of 48 is 32. $\frac{1}{12}$ of 48 is 4.

The following answers are not multiples of 4:

$\frac{3}{8}$ of 48 is 18.

$\frac{1}{8}$ of 48 is 6.