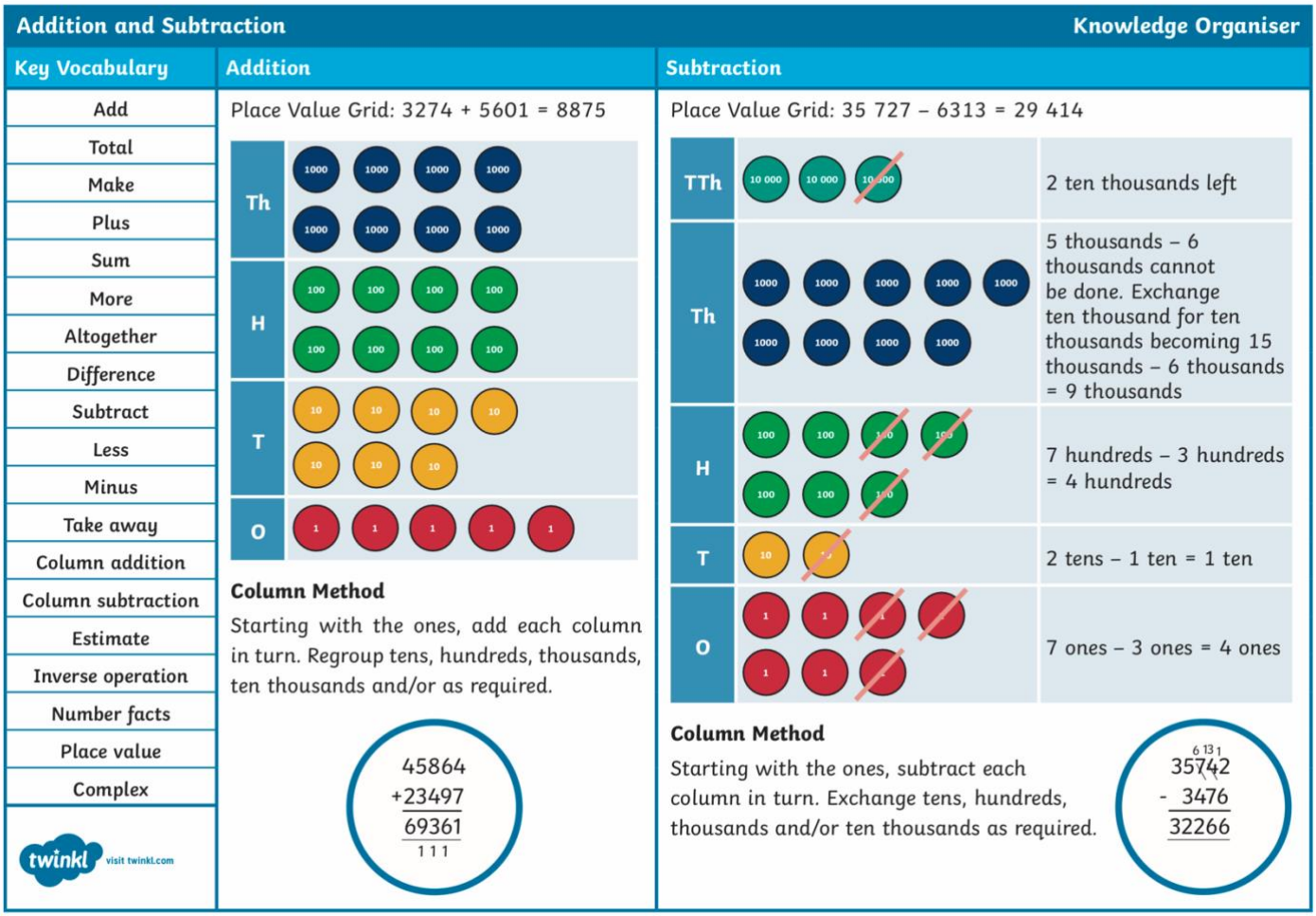
Hi Year 5.
Here are some further Maths activities for you to do this week.
There is a focus on addition and subtraction.
Use the knowledge organiser below to help you with your methods and Maths vocabulary.



Addition and Subtraction — Knowledge Organiser

Key Vocabulary

- Add
- Total
- Make
- Plus
- Sum
- More
- Altogether
- Difference
- Subtract
- Less
- Minus
- Take away
- Column addition
- Column subtraction
- Estimate
- Inverse operation
- Number facts
- Place value
- Complex

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Addition

Place Value Grid: 3274 + 5601 = 8875

Th	1000 1000 1000 1000 / 1000 1000 1000 1000
H	100 100 100 100 / 100 100 100 100
T	10 10 10 10 / 10 10 10
O	1 1 1 1 1

Column Method

Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands, ten thousands and/or as required.

```
 45864
+23497
 69361
 111
```

Subtraction

Place Value Grid: 35 727 – 6313 = 29 414

TTh	10 000 10 000 ~~10 000~~	2 ten thousands left
Th	1000 1000 1000 1000 1000 / 1000 1000 1000 1000	5 thousands – 6 thousands cannot be done. Exchange ten thousand for ten thousands becoming 15 thousands – 6 thousands = 9 thousands
H	100 100 ~~100~~ ~~100~~ / 100 100 ~~100~~	7 hundreds – 3 hundreds = 4 hundreds
T	10 ~~10~~	2 tens – 1 ten = 1 ten
O	1 1 ~~1~~ ~~1~~ / 1 1 ~~1~~	7 ones – 3 ones = 4 ones

Column Method

Starting with the ones, subtract each column in turn. Exchange tens, hundreds, thousands and/or ten thousands as required.

```
  6 13 1
 35742
-  3476
 32266
```

You can write these on your IPad or on paper.

Remember to show your working out when carrying the number and keep your columns in order.

Addition With 5 Digit Numbers

1. $56833 + 44105 =$ _____

2. $68640 + 28360 =$ _____

3. $92195 + 17742 =$ _____

4. $28446 + 55824 =$ _____

5. $68586 + 75019 =$ _____

6. $94929 + 68567 =$ _____

7. $84658 + 85858 =$ _____

8. $71778 + 88411 =$ _____

9. $34522 + 45861 =$ _____

10. $99394 + 46453 =$ _____

11. $98584 + 52426 =$ _____

12. $16373 + 26611 =$ _____

Subtraction With 5 Digit Numbers

1. 74321 − 13934

2. 52413 − 23120

3. 85232 − 71401

4. 32653 − 18341

5. 53145 − 32672

6. 46581 − 13623

7. 85913 − 33575

8. 29314 − 13023

9. 25521 − 12014

10. 91789 − 58816

11. 73471 − 64342

12. 76743 − 62102

Rounding is a good way to check your answers.

Using Rounding to Check Answers

Round these numbers to the nearest 100 and perform a mental calculation. Decide if your answer is close enough to the answer given to suggest that it is correct.

	Calculation	Rounded Approximation	Does the original answer look correct based on rounded estimation?	Corrected Answer if necessary (You may need to recalculate)
e.g.	325.7 + 485.4 = 911.1	300 + 500 = 800	No	811.1
1.	615 + 391 = 906			
2.	872 + 211 - 1083			
3.	235.3 + 258.9 = 512.12			
4.	475.23 + 596.98 = 1172.21			
5.	4567 + 3219 = 7786			
6.	5387.3 + 2418.8 = 7806.1			
7.	4879.54 + 2712.89 = 7952.43			
8.	97433 + 87679 = 181152			

Can you create your own calculations to work out?

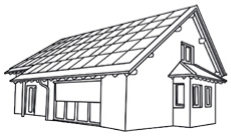
Here you can test your problem solving skills

Work out your answers in the box or on paper.

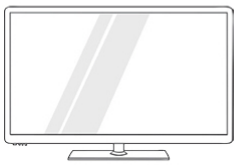
Spend Your Lottery Winnings

Congratulations – You have won £1 000 000 on the lottery. Which of the following items will you buy and how much will you have left? How close can you get to spending everything? You can buy more than one of each thing!

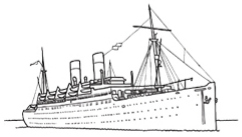
Fast Car
£49 995



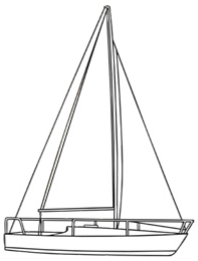
House
£459 356



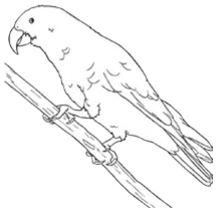
Giant TV
£2876



Round the World Cruise
£24 328



Sailing Boat
£119 345



Exotic Pet
£19 875

Entire wardrobe of clothes
£16 291

Diamond Ring
£11 853

Donation to charity
£25 000

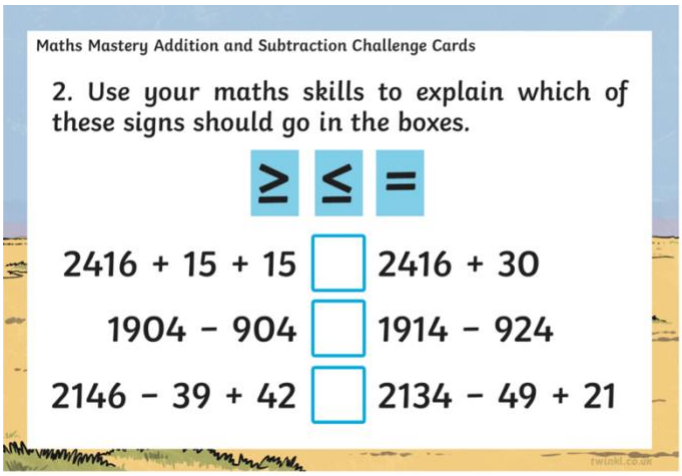
Personal Assistant for 10 years
£212 592

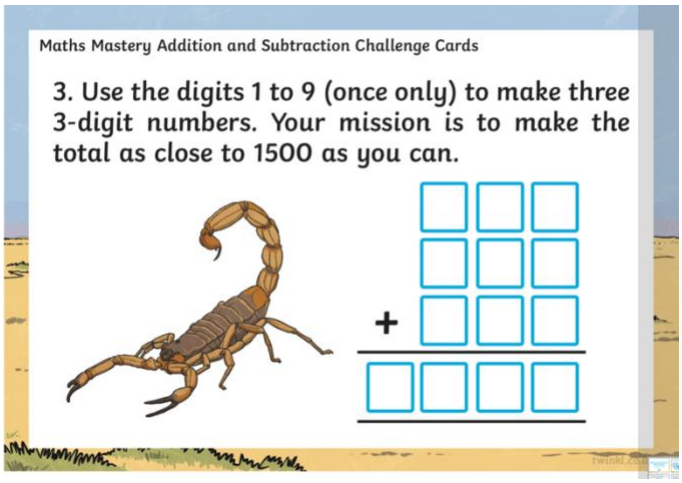
Household Robot
£37 649

Video Games
£7842

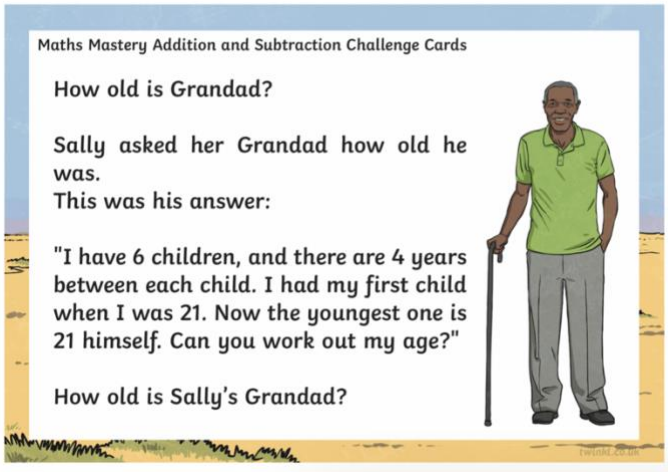
Use this space to record your shopping list and your working and fill out the total you have remaining at the bottom.

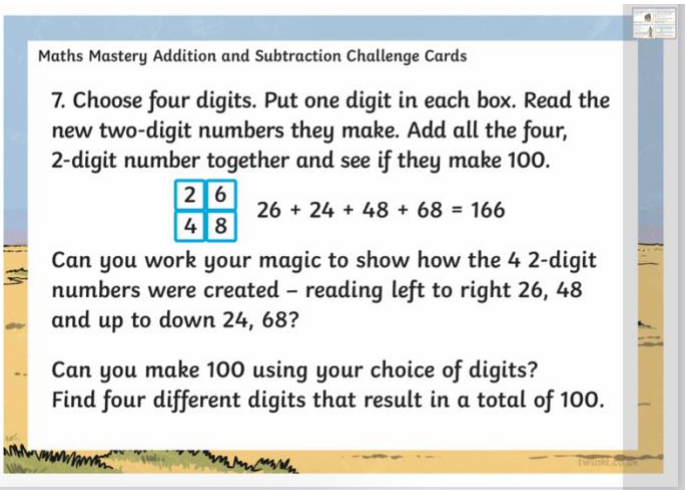
Time to challenge yourself





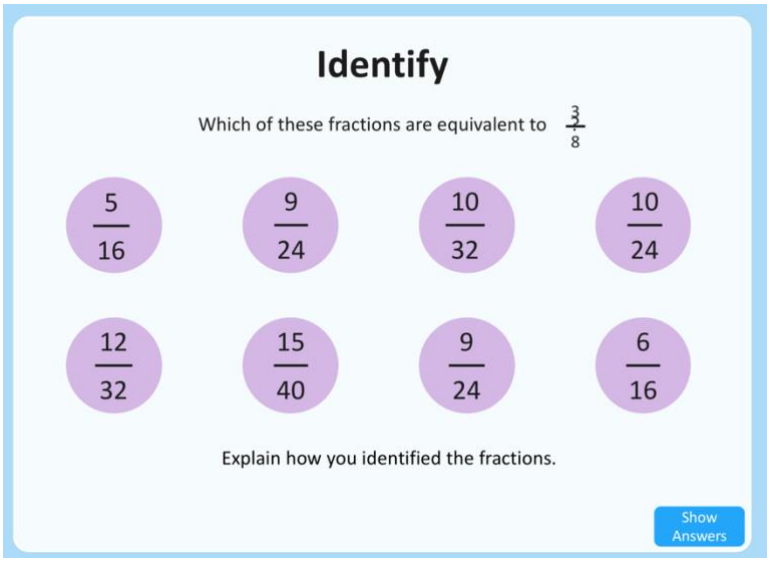
Show your working out in the space or on paper.

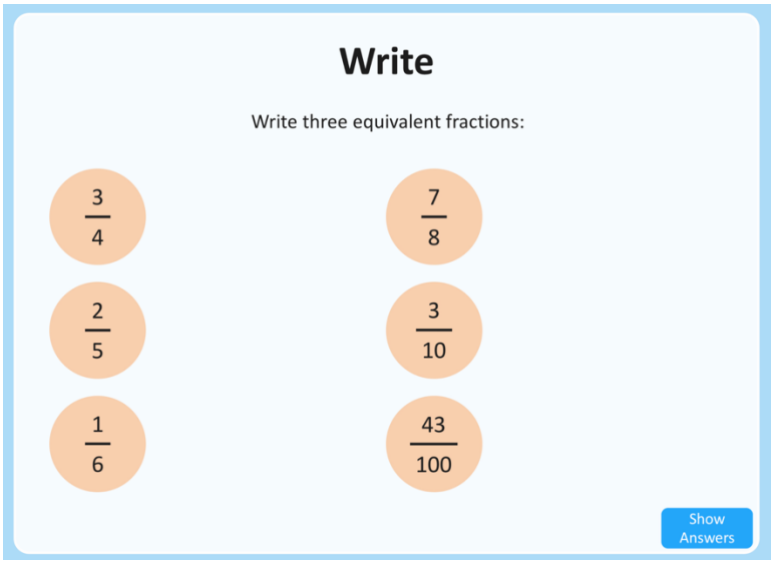


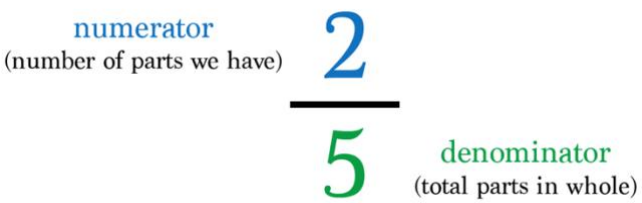


Now lets recap over fractions.

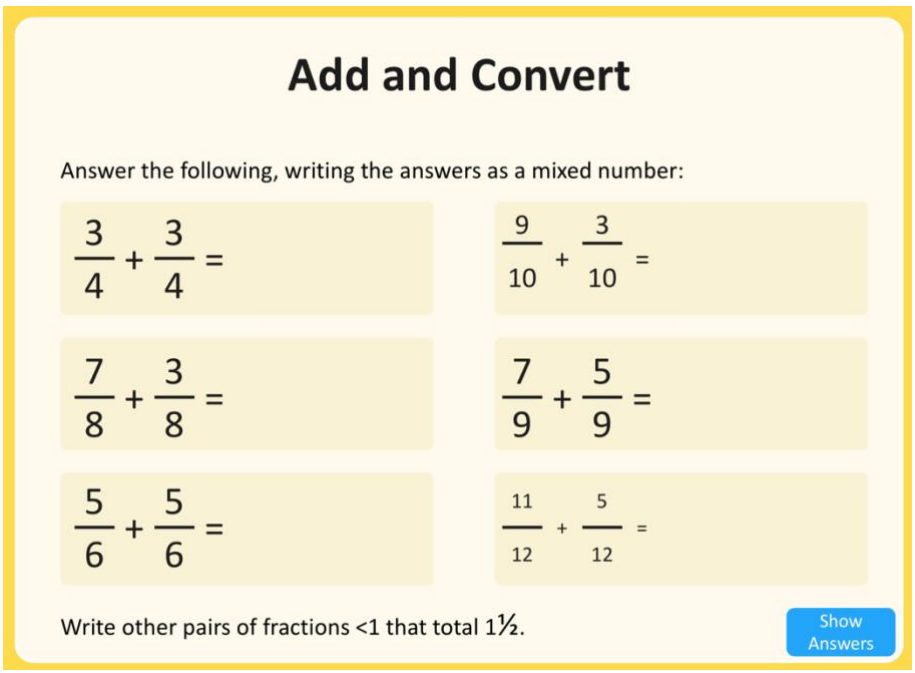
Remember equivalent fractions are fractions which have different numerators and denominators however they represent the same value.

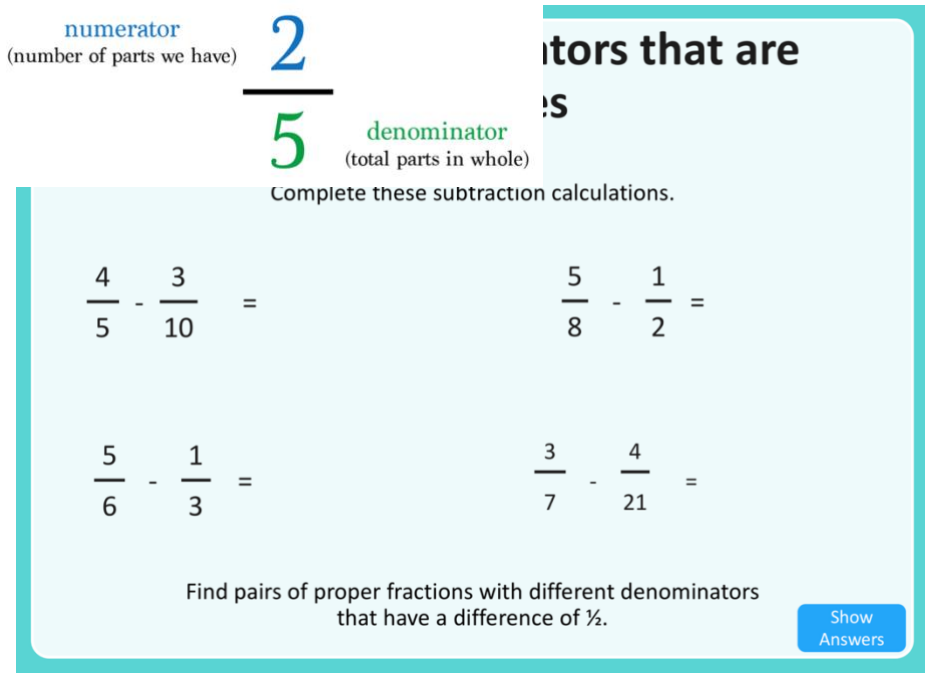






Now lets add and subtract some fraction.
Remembering that before we add or subtract we must make both denominators the same.
We also only add the numerator when adding.

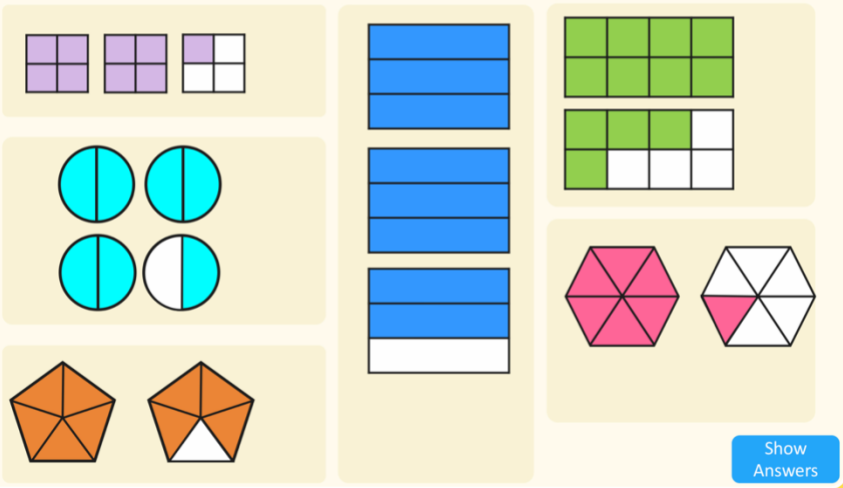




Now lets work out some Improper fractions.
This is where the numerator is greater that the denominator.

Improper Fraction

Express the following pictorial representations as improper fractions:



Show Answers

numerator
(number of parts we have) $\frac{2}{5}$ denominator
(total parts in whole)