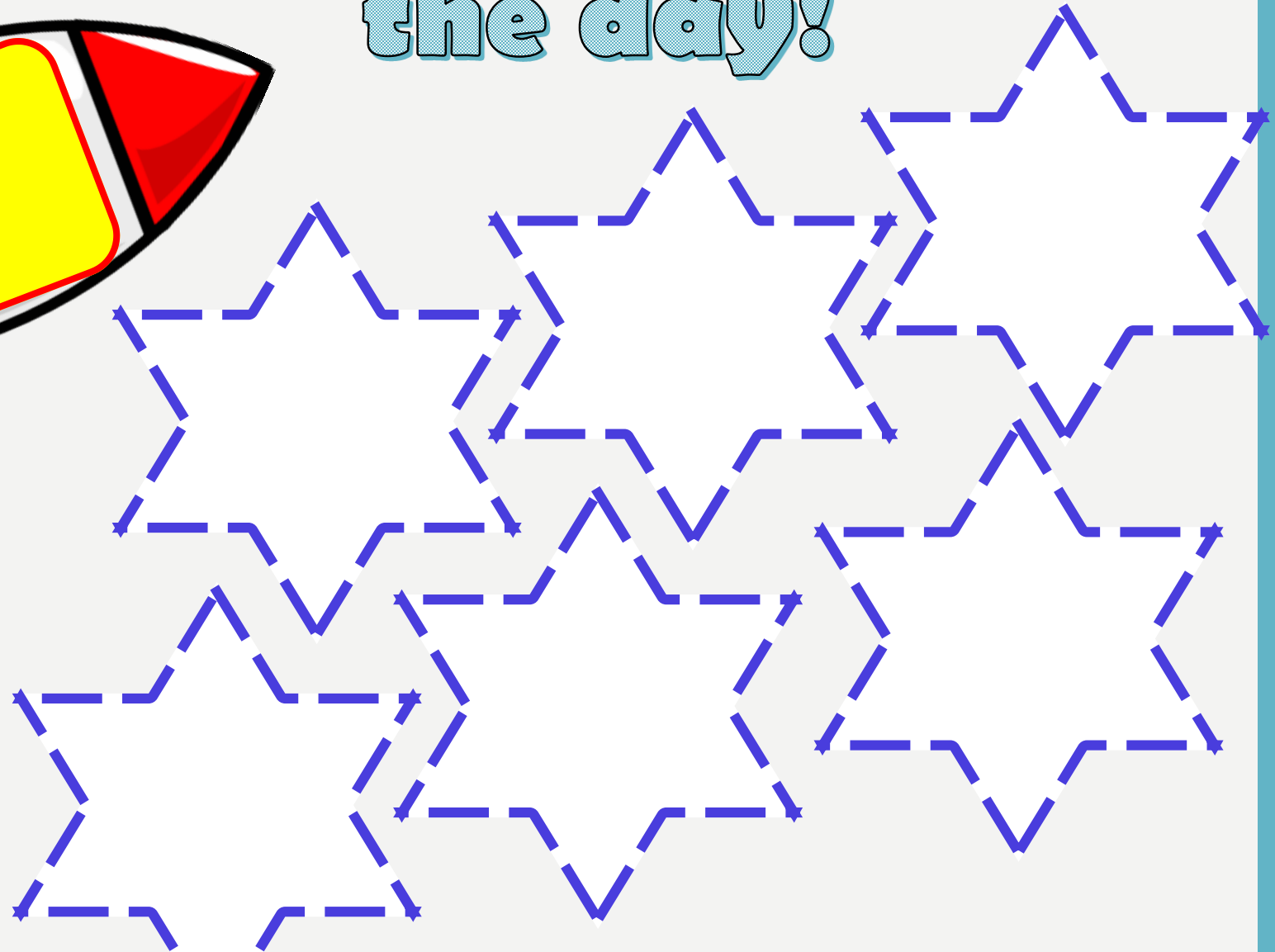
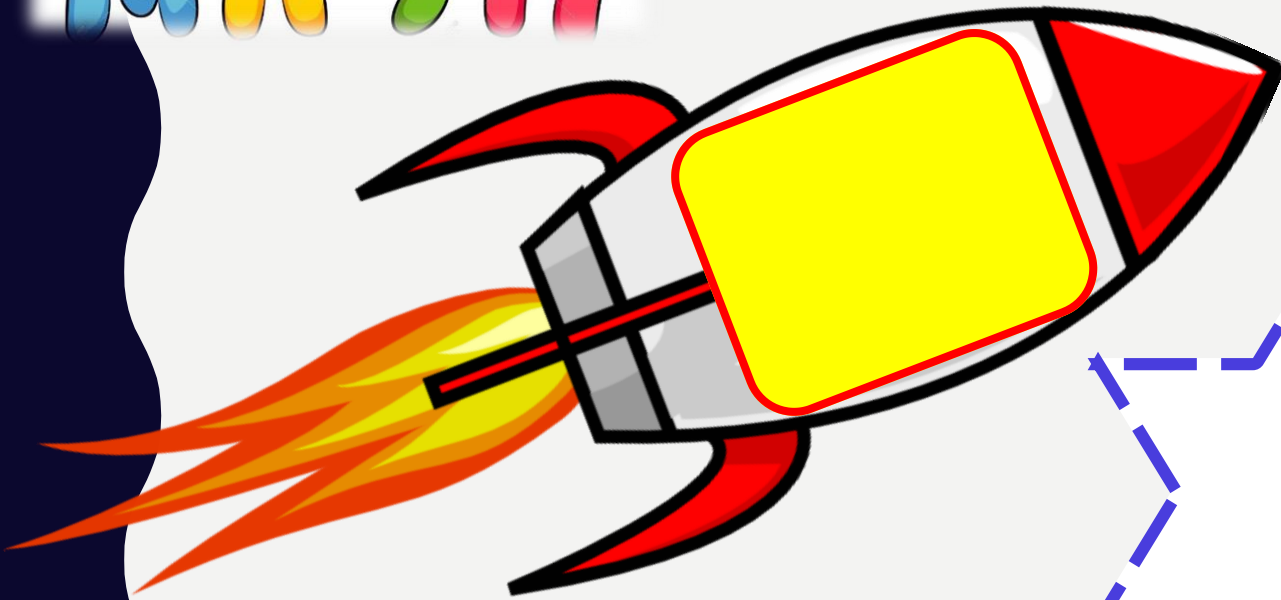




# Mathematician of the day!



NAILED IT!

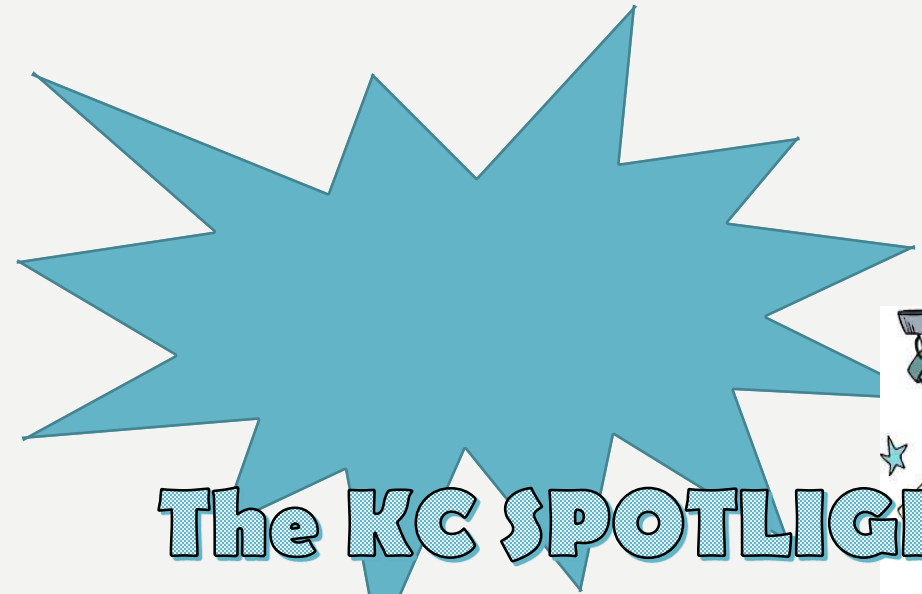
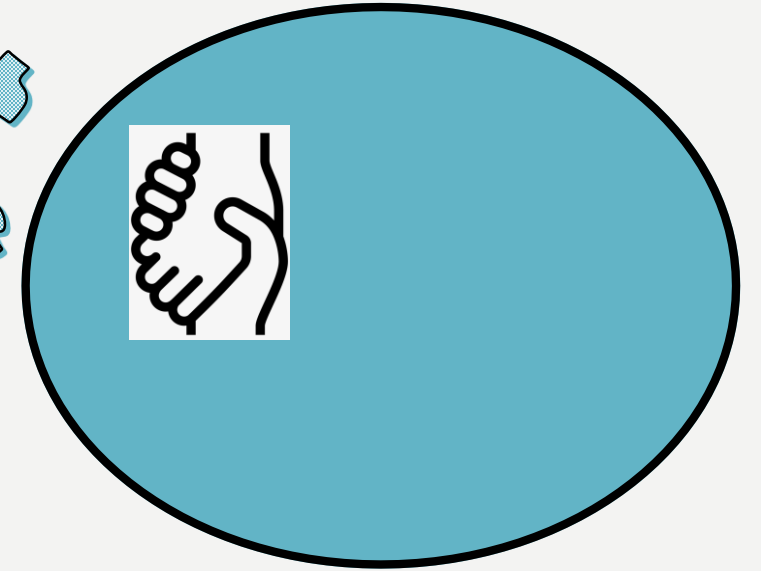


# Presentation watch...



## Non-negotiables

## Silky's Circle



## The KC SPOTLIGHT



# RECALL

$$234,567 + 987,679 =$$

$$\begin{array}{r} 98,768 \\ \times \quad 23 \\ \hline \\ \hline \\ \hline \end{array}$$

$$987,679 - 234,567$$

$$6789 \div 24 =$$

L.O. SOLVE PROBLEMS INVOLVING ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION.

- **SOME WILL EVEN:** Check my answer using a different method and/or the inverse.
- **SOME WILL:** Solve problems with more than one step and more than one operation.
- **MOST WILL:** Use correct written method without support
- **ALL WILL:** Identify operations needed and extract information needed to solve the problem.

# GUIDED PRACTICE



- a) How many away fans are present at the game?
- b) 23,891 more away fans arrive after kick off. How many away fans are there now?
- c) A ticket sales for the VIP section totalled £3125. 25 VIP members attended the match. What did they pay?

help

Use written methods and concentrate on information given in the question.



Each spectator excluding the VIP members paid the same amount of 21 for their ticket. How much did the stadium make in total, including the VIP total?

Fill in the missing gaps of the profit table for the stadium on different days.

|                                  | Home<br>23,450<br>supporters | Away<br>6,550<br>supporters | Total<br>_____<br>supporters |
|----------------------------------|------------------------------|-----------------------------|------------------------------|
| Ticket sales<br>(£43 per ticket) |                              |                             |                              |

|                       | Home<br>_____<br>supporters | Away<br>_____<br>supporters | Total<br>_____<br>supporters |
|-----------------------|-----------------------------|-----------------------------|------------------------------|
| Parking ticket<br>£15 | £98,145                     | £72,975                     |                              |



How would your answers change if the price for both tickets and parking increased by £1??? Explain how you know.

Fill in the missing gaps of the profit table for the stadium on different days.

|                                  | Home<br>23,450<br>supporters        | Away<br>6,550<br>supporters      | Total<br><hr/> supporters  |
|----------------------------------|-------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| Ticket sales<br>(£43 per ticket) | $23,450 \times £43 =$<br>£1,008,350 | $6,550 \times £43 =$<br>£281,650 | $£1,008,350 + £281,650 =$<br>£1,290,000                                                                       |

|                       | Home<br>$£98,145 \div 15 = 6543$<br>supporters | Away<br>$£72,975 \div 15 = 4865$<br>supporters | Total<br>11,408<br>supporters     |
|-----------------------|------------------------------------------------|------------------------------------------------|-----------------------------------|
| Parking ticket<br>£15 | £98,145                                        | £72,975                                        | $£98,145 + £72,975 =$<br>£171,120 |



How would your answers change if the price for both tickets and parking increased by £1??? Explain how you know.



# DIVE DEEPER 1 10 4ops

1)

8,200 lorries need to travel across the Channel from Dover to Calais.  
The ferry can transport 79 lorries in one journey.

How many journeys will it take to transport all 8,200 lorries?

4)

$$9,890 \div \star = 99 \text{ r}89$$

What is the value of  $\star$ ?

2)

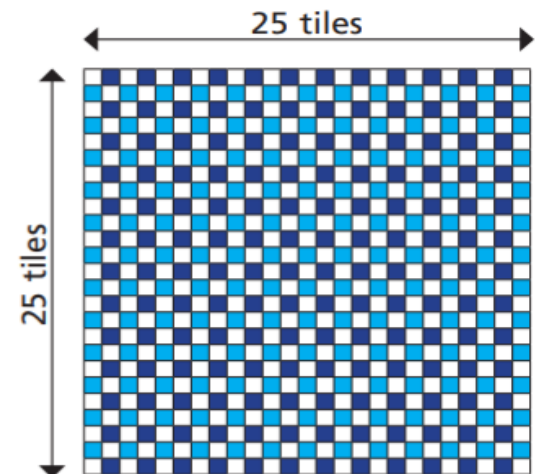
A car park has 230 rows of 17 spaces.

There are 1,250 cars already parked.

How many empty spaces are there?

5)

Mr Smith has tiled his kitchen floor.



Each tile costs 18p.

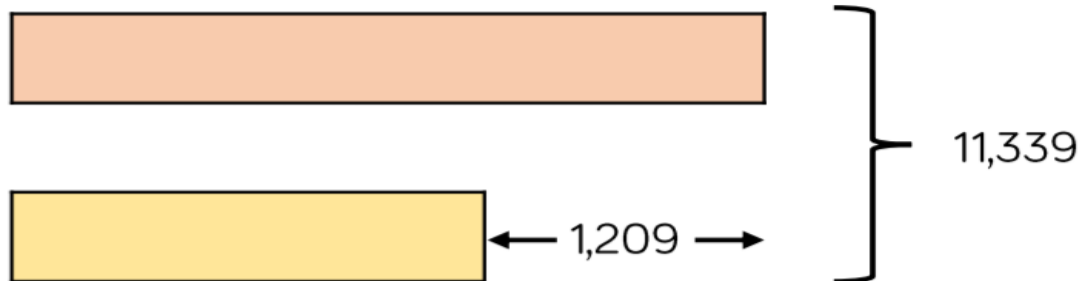
How much does it cost to tile the floor?

3)

The sum of two numbers is 11,339

The difference between the same two numbers is 1,209

Use the bar model to help you find the numbers.





1)  $8200 \div 79 = 103 \text{ r } 63$

2)  $230 \times 17 = 3910 - 1250 = 2660$  empty spaces

3)  $11,339 \times 0.5 = 5669.5 - 604.5 = 5065$       YELLOW  
      $= 5669.5 + 604.5 = 6274$       RED

4)  $99 = 99 \times 99 = 9801 + 89 = 9890$

5)  $25 \times 25 = 625 \times 18 = \text{£}112.50$  or 11,250p

1)

On Monday, Whitney was paid £114

On Tuesday, she was paid £27 more than on Monday.

On Wednesday, she was paid £27 less than on Monday.

How much was Whitney paid in total?

How many calculations did you do?

Is there a more efficient method?

2)

Pencils come in boxes of 64

A school bought 270 boxes.

Rulers come in packs of 46

A school bought 720 packs.

How many more rulers were ordered than pencils?



A school has 380 pupils, 24 staff and 9 governors.  
Everyone is invited to a special meal.  
Each table seats 12 people.

a) How many tables are needed?

b) How did you work this out? Did you use the same method as your partner?

3)

|         |   |
|---------|---|
| A       | B |
| 631,255 |   |

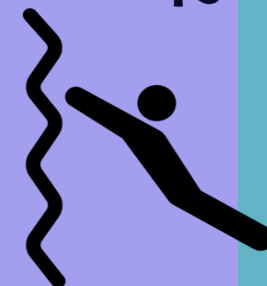
A is an odd number which rounds to 100,000 to the nearest ten thousand.  
It has a digit total of 30

B is an even number which rounds to 500,000 to the nearest hundred thousand.

It has a digit total of 10

A and B are multiples of 5.

What are possible values of A and B?



1)  $£114 + £141 + £87 = £342$  or  $£114 \times 3 = £342$

2)  $64 \times 270 = 17,280$  pencils    $46 \times 720 = 33,120$  rulers = 15,840 more rulers

3)  $380 + 24 + 9 = 413$     $413 \div 12 = 34\text{r}5 = 35$  tables are needed

Possible answer:

$A = 99,255$

$B = 532,000$

