## WHITE ROSE MATHS

Outline for this week:
Monday: Adding decimals (starter - inverse with addition calculations)
Tuesday: Subtracting decimals (starter - mixed inverse )
Wednesday: Complements to 1 (starter - missing number shape)
Thursday: Adding decimals - crossing the whole (starter - word problem)
Friday: Friday Maths Challenge (Q1-5 are most suitable for Year 5s but please feel free to try more than this if you feel like you want a challenge) There will be no starter today.

## MONDAY: STARTER (INVERSE)



$$
2564+11,239=8675
$$

Yep! If I add these two addends together, I do not get 8675 as the sum.

Therefore, to solve the missing number calculation, we must do the inverse - subtraction.

See the next slide.

- The calculation is addition.
- We already have our 'sum'
(total)
- One of the addends is missing

What would happen if I added 2564 and 8675 ?
$2564+8675=11239$
Now let's put that back in the calculation. What do you notice?

## MONDAY: STARTER (INVERSE)

- The dalculation is addition.
- We already have our 'sum'

(total)
- One of the addends is missing

What would happen if did this:

$$
2564-8675=?
$$

Well, I'm trying to subtract more than I started with. Imagine you baked 2564 cakes, and your friend tried to take 8675 cakes from you. They wouldn't physically be able to take this as it's more than you baked.

## MONDAY: STARTER (INVERSE)



So, to work out any missing addend, I need to put the sum at the start of my calculation and subtract the other addend.

This would be true whatever the position of the addend.

## TRY THESE:

1) $2567+\ldots=8745$
2) $\ldots+9876=14,209$
3) $792=$ $\qquad$ $+284$

## TRY THESE: ANSWERS

1) $2567+\underline{6178}=8745$
2) $4333+9876=14,209$
3) $792=\underline{508}+284$

# TUESDAY: STARTER (INVERSE/MISSING NUMBER QUESTIONS) NOW USE YOUR KNOWLEDGE ON INVERSE TO ANSWER THESE QUESTIONS 

1) 6542- $\qquad$ $=2875$
2) $7626+$ $\qquad$ $=12,432$
3) $\qquad$ $+3672=9347$
4) 28762 - $\qquad$ $=9438$
5) $\qquad$ $-6704=14,564$

CHALLENGE: 705 = 952 - $\qquad$

## IUESDAY: STARTER (INVERSE/MISSING NUMBER QUESTIONS) ANSWERS

1) $6542-\underline{3667}=2875$
2) $7626+\underline{4806}=12,432$
3) $5675+3672=9347$
4) $28762-\underline{19,324}=9438$
5) $\underline{21,268}-6704=14,564$

CHALLENGE: $705=952-\underline{247}$

## WEDNESDAY STARTER: MISSING NUMBER SHAPE

## The three circles along each side of the triangle adds up to 10,000 . Write the missing numbers in the circles.



These three circles are along one side so must add

$$
1000+7000+2000=10,000
$$

$$
3000+2000+\underline{5000}=10,000
$$

## WEDNESDAY STARTER: MISSING NUMBER SHAPE

The three circles along<br>each side of the triangle adds up to 10,000. Write the missing numbers in the circles.



## WEDNESDAY STARTER: NOW YOU TRY

The three circles along
each side of the triangle adds up to 10,000 . Write the missing numbers in the circles.


Firstly, check out this side.

## WEDNESDAY STARTER: NOW YOU TRY

The three circles along
each side of the triangle adds up to 10,000. Write the missing numbers in the circles.


## WEDNESDAY STARTER: NOW YOU TRY

The three circles along
each side of the triangle adds up to 10,000 . Write the missing numbers in the circles.


Decide yourself, which order to work out the sides in for this one.

## WEDNESDAY STARTER: NOW YOU TRY

The three circles along
each side of the triangle adds up to 10,000 . Write the missing numbers in the circles.


Decide yourself, which order to work out the sides in for this one.

## WEDNESDAY STARTER: NOW YOU TRY

The three circles along
each side of the triangle adds up to 15,000 . Write the missing numbers in the circles.


Read the question really carefully!

## WEDNESDAY STARTER: NOW YOU TRY

The three circles along
each side of the triangle adds up to 15,000 . Write the missing numbers in the circles.


## THURSDAY STARTER: WORD PROBLEMS

There were 6 bees in a beehive.

5 flew into the hive and 7 bees fly out.

(1)

How many bees are in the beehive now?

How would you show, using the pictures, the bees that flew out?

See next slide...

## THURSDAY STARTER: WORD PROBLEMS

There were 6 bees in a beehive.


5 flew into the hive and 7 bees fly out.


How many bees are in the beehive now?

## THURSDAY STARTER: WORD PROBLEMS

There were 21 bees in a beehive.

YOU MUST:
Use objects to represent the bees...even if you
can do the calculation already!

16 flew into the hive and 18 bees fly out.

How many bees are in the beehive now?

## THURSDAY STARTER: WORD PROBLEMS (ANSWER)

There were 21 bees in a beehive.

16 flew into the hive and 18 bees fly out.

How many bees are in the beehive now?

```
21+16 (flew in) = 37 bees
```

$$
37-18 \text { (flew out) }=19 \text { bees }
$$

Answer in a sentence: 19 bees were left in the hive.

## THURSDAY STARTER: NOW YOU TRY

1) There were 471 bees in a hive.

38 bees fly into the hive and 82 bees fly out. How many bees are in the hive now?
2) There were 628 bees in a hive.

275 bees fly into the hive and 106 bees fly out. How many bees are in the hive now?
3) There were 328 cupcakes in a shop.

That morning, the shop had a delivery of 175 cakes. However, 206 cakes were sold that day. How many cakes were left in the shop at the end of the day?

## THURSDAY STARTER: NOW YOU TRY (ANSWERS)

1) There were 471 bees in a hive.

38 bees fly into the hive and 82 bees fly out.
How many bees are in the hive now? There were 427 bees left in the hive.
2) There were 628 bees in a hive.

275 bees fly into the hive and 106 bees fly out.
How many bees are in the hive now? There were 797 bees left in the hive.
3) There were 328 cupcakes in a shop.

That morning, the shop had a delivery of 175 cakes. However, 206 cakes were sold that day. How many cakes were left in the shop at the end of the day? There were 297 cakes left in the shop at the end of the day.

