



# Starter – Can you solve these problems?

A postman drives 42 miles a day. How many miles will he drive in 5 days?

Miles to the nearest 10 =

Miles to the nearest 100 =

Fill in the missing numbers:

$$\begin{array}{r} 871 \\ - 199 \\ \hline 67 \end{array}$$

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Milly has a piece of ribbon 75cm long. She cuts it into 3 equal pieces. How long is each piece?

Answer—How many did you get right?

A postman drives 42 miles a day. How many miles will he drive in 5 days? **210 miles**


Miles to the nearest 10 = **210 miles**

Miles to the nearest 100 = **200 miles**

Fill in the missing numbers:

$$\begin{array}{r} 871 \\ - 199 \\ \hline 67\boxed{2} \end{array}$$

Milly has a piece of ribbon 75cm long. She cuts it into 3 equal pieces. How long is each piece? **25 cm**



2020

## Learning Question:

How I use the most efficient strategy for subtraction?

## Success Criteria:

- ✓ I can investigate different strategies to aid in subtraction calculations
- ✓ I can use both mental methods and columnar subtraction.
- ✓ I can decide which method would be best for certain calculations

## Vocabulary

- Number line
- Compensation
- Column Method
- Efficient

# Efficient

- What does efficient mean?
- bringing about a desired result with little waste (as of time or energy)
- Why do is it a good idea to find the most efficient way of solving a calculation?

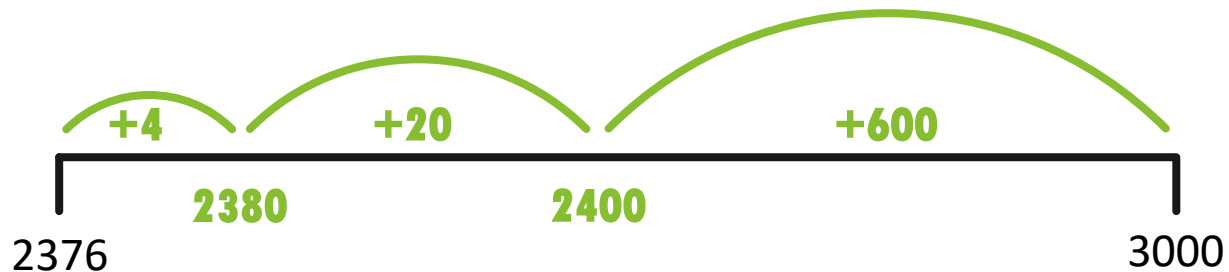
When facing a subtraction question there are different strategies that we can use aid in our calculations.

# Strategy Number 1

Use the blank number line below to find the difference.

$$3000 - 2376 = \square$$

$$600 + 20 + 4 = 624$$



If you use your number bonds to find the nearest multiple of 10 then it is easier to make the next jumps.

Use the number line strategy to calculate these problems.

$$4000 - 3453$$

$$5000 - 4322$$

$$8000 - 7653$$

$$9000 - 6423$$

$$3000 - 2345$$

$$6000 - 4542$$



## Strategy Number 2

Use the compensation method (adjusting each number by the same amount) to solve this calculation.

$$7000 - 5537 = \boxed{\phantom{0000}}$$

We can use this to ensure that we do not have to exchange during the column method. This makes the calculation much easier.

7	0	0	0	-	1	=	6	9	9	9		
5	5	3	7	-	1	=	5	5	3	6		
							6	9	9	9		
							5	5	3	6		
							1	4	6	3		

Use the number line strategy to calculate these problems.

$$6000 - 3453$$

$$8000 - 4322$$

$$9000 - 2653$$

$$5000 - 3423$$

$$8000 - 6345$$

$$7000 - 3542$$



# Which strategy should you choose?

Read this word problem and choose one of the subtraction methods to solve it. Explain why you have used this method.

Mrs Hull has 2786 pupils in her school. 1342 have school dinners. The rest have packed lunches. How many children have packed lunches?

$$2786 - 1342 = 1444$$

One method would be to use column subtraction, as this calculation requires no exchanging. This would be the most efficient method.

	<b>2</b>	<b>7</b>	<b>8</b>	<b>6</b>	
<b>-</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>2</b>	
	<b>1</b>	<b>4</b>	<b>4</b>	<b>4</b>	

# Your Task

- Worksheets on the website