

Numeracy - Mr Wright

Mental maths - practise calculating percentages of amounts

Look at the two tutorials on [my maths](#) to do with calculating percentages of numbers: Y5 - Percentages of amount 1

Y6 - Percentages of amounts 2

Remember: Percentage means parts of 100

To calculate 10%, you share the number by 10

To calculate 20%, you find 10% then double it

To calculate 1%, you divide the number by 100

To calculate 2%, you find 1% then double it

Examples: 10% of 350 = 35

$$350 \div 10 = 35$$

$$20\% \text{ of } 32 = 6.4$$

$$32 \div 10 = 3.2 \quad \text{then} \quad 3.2 \times 2 = 6.4$$

$$1\% \text{ of } 450 = 4.5$$

$$450 \div 100 = 4.50$$

Try to spend 10 minutes every day this week finding 1%, 2%, 10% or 20% of a number.

If you're feeling confident, try to combine your knowledge to find 21% of a number

Example questions:

$$10\% \text{ of } 720 =$$

$$10\% \text{ of } 345 =$$

$$1\% \text{ of } 300 =$$

$$1\% \text{ of } 270 =$$

$$20\% \text{ of } 350 =$$

$$20\% \text{ of } 245 =$$

$$2\% \text{ of } 700 =$$

$$2\% \text{ of } 320 =$$

$$21\% \text{ of } 420 =$$

$$21\% \text{ of } 350 =$$

Monday - Round any number

<https://whiterosemaths.com/homelearning/year-6/week-2/>

Click on the link and watch the round any number video, then answer the questions below



HTh	TTh	Th	H	T	O

Round the number in the place value chart to:

- The nearest 10,000
- The nearest 100,000
- The nearest 1,000,000



Write five numbers that round to the following numbers when rounded to the nearest hundred thousand.

200,000

600,000

1,900,000



Complete the missing digits so that each number rounds to one hundred and thirty thousand when rounded to the nearest ten thousand.

12 __,657

1 __,1999

13 __,001

2,567 to the nearest 100 is 2,500



Whitney

Do you agree with Whitney?
Explain why.

Teddy



4,725 to the nearest 1,000 is 5,025

Explain the mistake Teddy has made.



Tuesday - negative numbers

<https://whiterosemaths.com/homelearning/year-6/week-2/>

Click on the link and watch the negative number video, then answer the questions below

-  Use sandcastles (+1) and holes (-1) to calculate.
Here is an example.

$-2 + 5 =$  

Two sandcastles will fill two holes. There are three sandcastles left, therefore negative two add five is equal to three.

Use this method to solve:

$3 - 6$

$-7 + 8$

$5 - 9$

-  Use the number line to answer the questions.



- What is 6 less than 4?
- What is 5 more than -2?
- What is the difference between 3 and -3?

-  Mo has £17.50 in his bank account. He pays for a jumper which costs £30
How much does he have in his bank account now?

Wednesday - Add whole numbers with more than 4 digits

<https://whiterosemaths.com/homelearning/year-6/week-3/>

Click on the link and watch the addition video then answer these questions

Ron uses place value counters to calculate $4,356 + 2,435$

	Th	H	T	O
	4000 3000 2000	300 200 100	50 40 30	6 5 4 3 2 1
+	2000 1000	400 300 200 100	30 20 10	5 4 3 2 1
	6	7	9	1

Use Ron's method to calculate:

	3	2	4	6	1
+		4	3	5	2

	4	8	2	7	6
+		5	6	1	3

Jack, Rosie and Eva are playing a computer game. Jack has 3,452 points, Rosie has 4,039 points and Eva has 10,989 points.

How many points do Jack and Rosie have altogether?

How many points do Rosie and Eva have altogether?

How many points do Jack and Eva have altogether?

How many points do Jack, Rosie and Eva have altogether?

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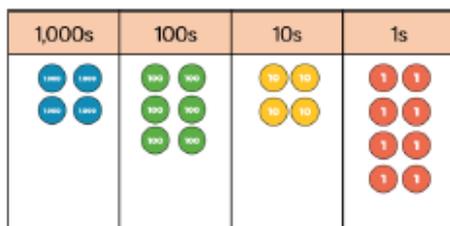
Work out the missing numbers.

	?	4	?	3	?
+	2	?	5	?	2
	7	8	5	2	9

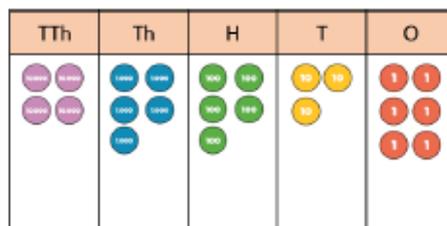
Thursday - Subtract whole numbers with more than 4 digits
<https://whiterosemaths.com/homelearning/year-6/week-3/>
 Click on the link and watch the subtraction video then answer these questions

 Calculate:

$$4,648 - 2,347$$



$$45,536 - 8,426$$



e A plane is flying at 29,456 feet.
 During the flight the plane descends 8,896 feet.
 What height is the plane now flying at?

Tommy earns £37,506 pounds a year.
 Dora earns £22,819 a year.
 How much more money does Tommy earn than Dora?

There are 83,065 fans at a football match.
 45,927 fans are male. How many fans are female?

Rosie completes this subtraction incorrectly.

$$\begin{array}{r} 28701 \\ - 7621 \\ \hline 21180 \end{array}$$

Explain the mistake to Rosie and correct it for her.

Friday - Inverse operations (addition and subtraction)

<https://whiterosemaths.com/homelearning/year-6/week-3/>

Click on the link and watch the inverse video then answer these questions

Find the missing values in these number sentences:

1) $3492 + ? = 6721$

2) $? - 2734 = 2815$

3) $8329 = ? + 4173$

4) $4513 = 7357 - ?$

Mo, Whitney, Teddy and Eva collect marbles.



Mo

I have 1,648 marbles.

I have double the amount of marbles Mo has.



Whitney



Teddy

I have half the amount of marbles Mo has.

In total they have 8,524 marbles between them.

How many does Eva have?