

Number and Place Value: Rounding Knowledge Organiser

Key Vocabulary

Digits	Any numerals from 0-9 especially when forming a number.
Value	What a number or numeral is worth.
Round up	Increasing a number to the nearest whole number or value of 10.
Round down	Decreasing a number to the nearest whole number or value of 10.
Multiple	A number that may be divided by other certain numbers without remainders.
Ones	1
Tens	10
Hundreds	100
Thousands	1000
Ten Thousands	10,000
Hundred Thousand	100,000
One Million	1,000,000
Ten Million	10,000,000

Key Information

- When rounding to the nearest 10, you take into account the digit in the ones column.
- When rounding to the nearest 100, you take into account the digit in the 10s column.
- When rounding to the nearest 1000, you take into account the digit in the 100s column.
- When rounding, all the numbers before the rounded column stay the same, all numbers after become 0.

Prior Knowledge

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|----|--|
| Y3 | Recognise the place value of each digit in a 3 digit-number. |
| Y4 | Round any number to 10,100 and 1000. |
| Y4 | Recognise the place value of each digit in a 4 digit-number. |
| Y5 | Round any number up to 1,000,000 |

Worked Examples

Round 23 to the nearest 10.



← round down → round up →

20

Round 264 to the nearest 100: 300



← round down → round up →

Worked Examples

Round 2450 to the nearest 1000:



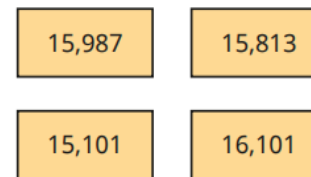
2000

Round 262,456 to the nearest 100,000:



300,000

Four children each have one of these cards.



Each child gives a clue about the number on their card.

Filip says, "My number rounds to 16,000 to the nearest thousand."

Esther says, "My number has 1 hundred."

Jack says, "My number is 15,990 when rounded to the nearest ten."

Dora says, "My number is 15,000 when rounded to the nearest thousand."

Filip - 15,813

Esther - 16,101

Jack - 15,987

Dora - 15,101