

17.06.20

Maths - Mental Arithmetic

Complete the mental arithmetic questions.

Rounding

| Planet | Diameter (km) | Rounding to the nearest 10 | Rounding to the nearest 100 | Rounding to the nearest 1 000 |
|---------|---------------|----------------------------|-----------------------------|-------------------------------|
| Mars | 6 794 | | | |
| Mercury | 4 876 | | | |
| Venus | 12 107 | | | |
| Neptune | 49 527 | | | |
| Earth | 12 755 | | | |
| Uranus | 51 117 | | | |
| Jupiter | 142 983 | | | |
| Saturn | 120 536 | | | |

Rounding

| Planet | Distance from the Sun (km) | Rounding to the nearest 1 000 000 |
|---------|----------------------------|-----------------------------------|
| Mars | 227 940 000 | |
| Mercury | 57 910 000 | |
| Venus | 108 200 000 | |
| Neptune | 4 501 000 000 | |
| Earth | 149 600 000 | |
| Uranus | 2 873 550 000 | |
| Jupiter | 778 330 000 | |
| Saturn | 1 424 600 000 | |

Mental Arithmetic

Adding and Subtracting Positive and Negative Numbers

Calculate the missing temperature (T) for each of the following equations. Don't forget to double check your answers!

| Planet | Average Temp. (°c) | Working Out | T (°c) |
|---------|--------------------|-------------|--------|
| Mars | $-34 - T = -55$ | | |
| Mercury | $-18 + T = 167$ | | |
| Venus | $T - 204 = 449$ | | |
| Neptune | $T + 119 = -223$ | | |
| Earth | $T - 14.7 = 7.2$ | | |
| Uranus | $48 + T = -184$ | | |
| Jupiter | $-265 - T = -153$ | | |

Mental Arithmetic

Adding and Subtracting Positive and Negative Numbers

Show how the Average Temperatures Change with the Different Increases and Decreases in temperature.

| Planet | Average Temperature (°c) | Increased by 17° (c) | Decreased by 24° (c) | Increased by 33° (c) | Decreased by 106° (c) |
|---------|--------------------------|----------------------|----------------------|----------------------|-----------------------|
| Mars | -55 | | | | |
| Mercury | 167 | | | | |
| Venus | 449 | | | | |
| Neptune | -223 | | | | |
| Earth | 7.2 | | | | |
| Uranus | -184 | | | | |
| Jupiter | -153 | | | | |

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Why not **order** the numbers using your Planet Cards?

| Planet | Distance from the Sun in Words (km) | Distance from the Sun in Numbers (km) |
|---------|---|---------------------------------------|
| Mercury | Fifty seven million, nine hundred and ten thousand kilometres | |
| Saturn | One billion, four hundred and twenty four million, six hundred thousand kilometres | |
| Venus | One hundred and eight million, two hundred thousand kilometres | |
| Jupiter | Seven hundred and seventy eight million, three hundred and thirty thousand kilometres | |
| Neptune | Four billion, five hundred and one million kilometres | |
| Earth | One hundred and forty nine million, six hundred thousand kilometres | |
| Mars | Two hundred and twenty seven million, nine hundred and forty thousand kilometres | |
| Uranus | Two hundred and eighty seven million, nine hundred and seventy thousand kilometres | |