Is there a pattern between the standard form of each term as the power/exponent decreases by 1?

In your groups, go through the three tasks.

**Task 1:** Complete the tables

|  |  |
| --- | --- |
| Exponential Form | Standard Form (Evaluate) |
| $$2^{5}$$ |  |
| $$2^{4}$$ |  |
| $$2^{3}$$ |  |
| $$2^{2}$$ |  |
| $$2^{1}$$ |  |
| $$2^{0}$$ |  |
| $$2^{-1}$$ |  |
| $$2^{-2}$$ |  |

|  |  |
| --- | --- |
| Exponential Form | Standard Form (Evaluate) |
| $$3^{4}$$ |  |
| $$3^{3}$$ |  |
| $$3^{2}$$ |  |
| $$3^{1}$$ |  |
| $$3^{0}$$ |  |
| $$3^{-1}$$ |  |
| $$3^{-2}$$ |  |
| $$3^{-3}$$ |  |

**Task 2:**  Rewrite  using repeated multiplication.

**Task 3:** Rewrite 2-3 using positive exponents.

**Task 4:** Rewrite $\left(\frac{3}{4}\right)^{-2}$using positive exponents.

**Task 5:** Which is going to be greater $3^{-2}$ or $2^{-3}$? Give reasons!

**Home Practice Questions:**

**MUST DO:** P.233 Questions 3, 5, 7, 10, 11, 16

Challenge: P. 234Question 20