**5NBT2**  **Worksheet  video 1  Name _____**

**Problem 1**
Write the product using an exponent.  Then find the value of the power.

$2 \times 2 \times 2 \times 2$

$5 \times 5 \times 5 \times 5$

**ANSWER**

**ANSWER**

_____  _____

**Problem 2**
Write the product using an exponent.  Then find the value of the power.

$11 \times 11 \times 11$

$9 \times 9 \times 9 \times 9$

**ANSWER**

**ANSWER**

_____  _____

**Problem 3**
Looking at the table below figure out the prime factorization and write the answers in the table.

**ANSWERS**

| Power of 6 | Prime Factorization |
| --- | --- |
| 6 | $2 \times 3$ |
| 36 or $6^2$ | $2^2 \times 3^2$ |
| 216 or $6^3$ | |
| 1,296 or $6^4$ | |

**Problem 4**
Figure out the cost of the items listed below in the table.

A construction company manager is purchasing supplies for a new project.  The tools purchased are shown in the table below.  How much would it cost to purchase one hammer and one scrdriver?

| Item | Quantity Purchased | Total Cost ($) |
| --- | --- | --- |
| Screwdriver | 8 | $55.92 |
| Hammer | 10 | $120.40 |
| Wrench | 7 | $69.58 |

**ANSWERS**

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