Week by Week #4 – Due \_\_\_\_\_\_\_\_\_\_\_\_ Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

All work must be shown neatly on a **separate piece of paper**!

**NO CALCULATOR** – even to check ☺ **NO CALCULATOR** – even to check ☺

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | The cells of the bacteria *E. coli* can double every 20 **minutes**. If you begin  with a single cell, how many cells can there be after 4 **hours**? | | | | | |  |
| **2** | A submarine submerged at a depth of -40 feet dives 57 feet more. What is the new depth of the submarine? | | | | | |  |
| **3** | Climax, Colorado, is the highest town in the United States at 11,560 feet.  The lowest town is Calipatria, California, which is 185 feet *below* sea level. What is the difference in elevation? | | | | | |  |
| **4** | A submarine at -235 meters dives to a depth 8 times its initial depth. To what depth does the submarine dive? | | | | | |  |
| **5** | A team of mountain climbers makes camp 1.48 kilometers above sea  level. They climb another 2.91 kilometers to the mountain’s peak. How tall is the mountain? | | | | | |  |
| **6** | Student tickets for the basketball playoffs cost $9.25 each. How much do 9 student tickets cost? | | | | | |  |
| **7** | Ariel’s English homework is to read 24 pages. She reads of the assignment on the bus ride home. How many pages does she read on  the bus? | | | | | |  |
| **8** | At birth, a pilot whale is feet long. A newborn gray whale is feet  long. How much longer is the newborn gray whale? | | | | | |  |
| **9** | | 0.105 ÷ 0.03 |  |  | **15** | 14 + (-3.54) |  |
| **10** | | 7.65 × 3.4 |  |  | **16** | (16 - 23) • (8 – 3)2 |  |
| **11** | | LCM of 6 & 14 |  |  | **17** | 7.4 ÷ 0.02 |  |
| **12** | | GCF of 16 & 24 |  |  | **18** | -27.5 – 3.45 |  |
| **13** | |  |  |  | **19** | Write an expression for:  The product of *x* and 7 |  |
| **14** | | 24 inches = ? feet |  |  | **20** | 200 minutes = ?hours ?min |  |