Week by Week #8 – Due \_\_\_\_\_\_\_\_\_\_\_\_\_ Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Put your final answer in the box.** All work must be shown neatly on a **separate piece of paper**!

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

|  |  |  |
| --- | --- | --- |
| 1 | **Write an equation. Do not solve.**5 times the sum of a number and negative 12 is equal to -40 |  |
| 2 | **Write an equation. Do not solve.**The sum of three consecutive numbers is equal to 192.  |  |
| 3 | **Write an equation. Do not solve.**The Nile River is 6690 kilometers long. This is 394 kilometers longer than the Amazon River. How long is the Amazon River? |  |
| 4 | **Write an inequality for the situation.** The temperature will be less than 80 degrees. |  x |
| 5 | **Write an inequality for the situation.** There are fewer than 10 students in the class |  x |
| 6 | **Write an inequality for the situation.** The maximum temperature will be 65 degrees |  x |

**Put your final answer in the box.** All work must be shown neatly on a **separate piece of paper**!

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| --- | --- | --- | --- | --- | --- | --- |
| 7 | $$2j —14=-20$$ |  |  | 14 | $$j —\left(-16\right)>-2$$ |  j |
| 8 | $$15- \frac{f}{8}=24$$ |  |  | 15 | $$-\frac{f}{8}<24$$ |  f |
| 9 | $$-14=-7r+14$$ |  |  | 16 | $$228>-4r$$ |  r |
| 10 | $$0.05y+1.42=-12.2$$ |  |  | 17 | $$z+\left(-26\right)\geq 54$$ |  z |
| 11 | $$-4.2+ \frac{v}{2.8}= -4.12$$ |  |  | 18 | $$5b>-20$$ |  b |
| 12 | $$5\frac{1}{3}+ 2y= -7\frac{4}{9}$$ |  |  | 19 | $$h-24\geq -22$$ |  h |
| 13 | $$-5x+\frac{4}{5}= -\frac{2}{3}$$ |  |  | 20 | $$-5-\frac{x}{4}< -10$$ |  x |