



Minecraft Math Crafting

Use place value and rounding to solve these blocky problems!

Name: _____ Date: _____

1 CASTLE BUILDING

Alex is building a giant castle wall. She uses blocks equal to the value of 3 thousands, 5 hundreds, and 8 tens. If she builds 3 identical walls of this size, how many blocks does she use in total?

Work: _____

Answer: _____

2 REDSTONE ENGINEERING

Notch mines 2,674 pieces of redstone dust. He rounds this number to the nearest hundred, then uses 300 of those pieces to make power tracks. He shares the remaining redstone dust equally among 5 chests. How many pieces of redstone go into each chest?

Work: _____

Answer: _____

3 VILLAGER TRADING

A villager wants to trade a diamond sword for emeralds equal to the value of 4 hundreds and 6 tens. You start with 500 emeralds in your inventory. After paying the villager, how many emeralds do you have left?

Work:

Answer: _____

4 MELON FARMING

Steve harvests 467 melons from his farm. He rounds this count to the nearest ten, then packs them into boxes of 10 melons each. If he sells each box for 3 emeralds, how many emeralds does he earn?

Work:

Answer: _____

5 ROUNDING & DIVISION

Steve has 1,482 emeralds in his inventory. He rounds this number of emeralds to the nearest hundred. He then spends 300 of those emeralds on diamond armor and divides the remaining emeralds equally among 4 trading villagers. How many emeralds does each villager get?

Work:

Answer: _____

Alex's coordinates are 4,350. The value of the 5 in her coordinates represents her oak logs, and the value of the 3 represents her cobblestone. She multiplies her oak logs by 8, then subtracts her cobblestone. What is her final amount of building materials?

Work:

Answer: _____

Answer Key

Minecraft Math Crafting · Grade 4

1. Alex is building a giant castle wall. She uses blocks equal to the value of 3 thousands, 5 hundreds, and 8 tens. If she builds 3 identical walls of this size, how many blocks does she use in total? **10740**
2. Notch mines 2,674 pieces of redstone dust. He rounds this number to the nearest hundred, then uses 300 of those pieces to make power tracks. He shares the remaining redstone dust equally among 5 chests. How many pieces of redstone go into each chest? **480**
3. A villager wants to trade a diamond sword for emeralds equal to the value of 4 hundreds and 6 tens. You start with 500 emeralds in your inventory. After paying the villager, how many emeralds do you have left? **40**
4. Steve harvests 467 melons from his farm. He rounds this count to the nearest ten, then packs them into boxes of 10 melons each. If he sells each box for 3 emeralds, how many emeralds does he earn? **141**
5. Steve has 1,482 emeralds in his inventory. He rounds this number of emeralds to the nearest hundred. He then spends 300 of those emeralds on diamond armor and divides the remaining emeralds equally among 4 trading villagers. How many emeralds does each villager get? **300**
6. Alex's coordinates are 4,350. The value of the 5 in her coordinates represents her oak logs, and the value of the 3 represents her cobblestone. She multiplies her oak logs by 8, then subtracts her cobblestone. What is her final amount of building materials? **100**