



Minecraft Math Adventure

Use your crafting and survival math skills to solve these multi-step challenges!

Name: _____ Date: _____

1 WOOD CRAFTING

Steve chops down 12 birch logs and 15 oak logs. Each log makes 4 wood planks. He uses 80 of his new planks to build a cozy starter house. How many planks does he have left over?

Work: _____

Answer: _____

2 IRON MINING

Alex mines 48 iron ore and melts them all into iron ingots. She spends $\frac{1}{3}$ of her ingots crafting an iron chestplate, and then uses 12 more ingots to craft tools. How many iron ingots does she have left in her chest?

Work: _____

Answer: _____

3 VILLAGER TRADING

Steve starts with 3 emeralds. A weaponsmith villager gives him 21 more emeralds for his coal. Steve then spends $\frac{1}{4}$ of his total emeralds on an enchanted iron sword. How many emeralds does Steve have left?

Work: _____

Answer: _____

4 WHEAT FARMING

Steve harvests 18 wheat from his small field, 24 from his medium field, and 12 from his large field. He feeds $\frac{1}{6}$ of the total wheat to his sheep, and uses all the remaining wheat to craft bread which takes 3 wheat per loaf. How many loaves of bread can he craft?

Work:

Answer: _____

5 NETHER PORTAL

To build a nether portal, Alex needs 14 obsidian blocks. She has 2 obsidian blocks in her inventory. She creates more obsidian by pouring water on lava pools, making 3 obsidian blocks a minute for 5 minutes. How many extra obsidian blocks will she have left over after building her portal?

Work:

Answer: _____

6 TAMING WOLVES

Steve defeats 8 skeletons, and each one drops exactly 3 bones. He uses $\frac{1}{4}$ of his total bones to tame a wild wolf. Then, a sneaky fox grabs 5 of his remaining bones and runs away. How many bones does Steve have left?

Work:

Answer: _____

Answer Key

Minecraft Math Adventure · Grade 5

1. Steve chops down 12 birch logs and 15 oak logs. Each log makes 4 wood planks. He uses 80 of his new planks to build a cozy starter house. How many planks does he have left over? **28**
2. Alex mines 48 iron ore and melts them all into iron ingots. She spends $\frac{1}{3}$ of her ingots crafting an iron chestplate, and then uses 12 more ingots to craft tools. How many iron ingots does she have left in her chest? **20**
3. Steve starts with 3 emeralds. A weaponsmith villager gives him 21 more emeralds for his coal. Steve then spends $\frac{1}{4}$ of his total emeralds on an enchanted iron sword. How many emeralds does Steve have left? **18**
4. Steve harvests 18 wheat from his small field, 24 from his medium field, and 12 from his large field. He feeds $\frac{1}{6}$ of the total wheat to his sheep, and uses all the remaining wheat to craft bread which takes 3 wheat per loaf. How many loaves of bread can he craft? **15**
5. To build a nether portal, Alex needs 14 obsidian blocks. She has 2 obsidian blocks in her inventory. She creates more obsidian by pouring water on lava pools, making 3 obsidian blocks a minute for 5 minutes. How many extra obsidian blocks will she have left over after building her portal? **3**
6. Steve defeats 8 skeletons, and each one drops exactly 3 bones. He uses $\frac{1}{4}$ of his total bones to tame a wild wolf. Then, a sneaky fox grabs 5 of his remaining bones and runs away. How many bones does Steve have left? **13**