



Minecraft and Basketball Math Challenge

Solve these multi-step word problems using your crafting and court skills!

Name: _____ Date: _____

1 MINECRAFT CRAFTING

Alex needs to craft 14 iron pickaxes for her mining group, and each pickaxe requires 3 iron ingots. She mines 2 iron veins that give her 9 raw iron blocks each, which she smelts into ingots. How many more iron ingots does she still need to craft all the pickaxes?

Work:

Answer: _____

2 BASKETBALL STATS

Marcus wants to average exactly 20 points per game over a 4-game basketball tournament. In his first three games, he scored 18, 22, and 15 points. How many points does Marcus need to score in his fourth game to reach his target average?

Work:

Answer: _____

3 MINECRAFT BUILDING

Steve is building a massive castle wall that requires 8 rows of 50 cobblestone blocks each. He has 8 storage chests, each containing 60 cobblestone blocks. How many cobblestone blocks will Steve have left over after he completes the wall?

Work:

Answer: _____

4 BASKETBALL TICKETS

Coach Miller purchased 15 tickets for his basketball team to watch a professional game. The regular price for all the tickets was \$375, but he received a group discount of \$45. If the players split the discounted cost equally, how many dollars does each player owe?

Work:

Answer: _____

5 MINECRAFT TRADING

Jenny is trading with villagers to get enchanted books. She has 12 chests of wheat, with each chest containing exactly 18 wheat items. A farmer villager buys 24 wheat items for 1 emerald, and a librarian villager sells 1 enchanted book for 3 emeralds. How many enchanted books can Jenny buy if she trades all her wheat?

Work:

Answer: _____

The basketball team bought 4 new boxes of practice cones, with 15 cones in each box. They also found 18 older cones in their equipment closet. If the coach wants to distribute all of these cones equally across 6 different practice courts, how many cones will be set up on each court?

Work:

Answer: _____

Answer Key

Minecraft and Basketball Math Challenge · Grade 6

1. Alex needs to craft 14 iron pickaxes for her mining group, and each pickaxe requires 3 iron ingots. She mines 2 iron veins that give her 9 raw iron blocks each, which she smelts into ingots. How many more iron ingots does she still need to craft all the pickaxes? **24**
2. Marcus wants to average exactly 20 points per game over a 4-game basketball tournament. In his first three games, he scored 18, 22, and 15 points. How many points does Marcus need to score in his fourth game to reach his target average? **25**
3. Steve is building a massive castle wall that requires 8 rows of 50 cobblestone blocks each. He has 8 storage chests, each containing 60 cobblestone blocks. How many cobblestone blocks will Steve have left over after he completes the wall? **80**
4. Coach Miller purchased 15 tickets for his basketball team to watch a professional game. The regular price for all the tickets was \$375, but he received a group discount of \$45. If the players split the discounted cost equally, how many dollars does each player owe? **22**
5. Jenny is trading with villagers to get enchanted books. She has 12 chests of wheat, with each chest containing exactly 18 wheat items. A farmer villager buys 24 wheat items for 1 emerald, and a librarian villager sells 1 enchanted book for 3 emeralds. How many enchanted books can Jenny buy if she trades all her wheat? **3**
6. The basketball team bought 4 new boxes of practice cones, with 15 cones in each box. They also found 18 older cones in their equipment closet. If the coach wants to distribute all of these cones equally across 6 different practice courts, how many cones will be set up on each court? **13**