Digital Quest: Long Division Adventures in TechLand

Math · Grade 4 · Technology Theme

> 🧭 Help your technology heroes complete their digital missions by solving long division problems to unlock secret codes and save TechLand!

NAME _____

DATE _____

SCORE _____ / 8

1

Byte the Robot is sorting 456 data files into 3 secure server folders equally. How many files will go in each folder? Divide 456 ÷ 3.

2

Pixel the Programmer collected 648 lines of code from her teammates and needs to organize them into 4 equal programs. How many lines of code will each program contain? Divide 648 ÷ 4.

3

Circuit the Computer collected 735 digital coins from completing quests and wants to split them equally among 5 treasure chests to protect them. How many coins go in each chest? Divide 735 ÷ 5.

4

Widget the AI Assistant discovered 824 glitched pixels on the TechLand screen and needs to repair them in 8 equal sections. How many glitched pixels are in each section? Divide 824 ÷ 8.

5

Download the Data Dragon has 576 encrypted messages that need to be distributed equally across 6 communication channels to send throughout the kingdom. How many messages per channel? Divide 576 ÷ 6.

6

Server the Guardian is organizing 912 backup files into 7 different vaults to keep the kingdom safe. How many backup files will be stored in each vault? Divide 912 ÷ 7.

7

Cloud the Sky Wanderer collected 945 digital raindrops and needs to fill 9 rain barrels equally for the cloud kingdom. How many digital raindrops will fill each barrel? Divide 945 ÷ 9.

8

Signal the Messenger has 684 wireless messages to deliver to 6 different tech villages. If she divides them equally, how many messages will each village receive? Divide 684 ÷ 6.

Answer Key

1

Byte the Robot is sorting 456 data files into 3 secure server folders equally. How many files will go in each folder? Divide 456 ÷ 3.

ANSWER

152

2

Pixel the Programmer collected 648 lines of code from her teammates and needs to organize them into 4 equal programs. How many lines of code will each program contain? Divide 648 ÷ 4.

ANSWER

162

3

Circuit the Computer collected 735 digital coins from completing quests and wants to split them equally among 5 treasure chests to protect them. How many coins go in each chest? Divide 735 ÷ 5.

ANSWER

147

4

Widget the AI Assistant discovered 824 glitched pixels on the TechLand screen and needs to repair them in 8 equal sections. How many glitched pixels are in each section? Divide 824 ÷ 8.

ANSWER

103

5

Download the Data Dragon has 576 encrypted messages that need to be distributed equally across 6 communication channels to send throughout the kingdom. How many messages per channel? Divide 576 ÷ 6.

ANSWER

96

6

Server the Guardian is organizing 912 backup files into 7 different vaults to keep the kingdom safe. How many backup files will be stored in each vault? Divide 912 ÷ 7.

ANSWER

130 remainder 2 or 130 R2

7

Cloud the Sky Wanderer collected 945 digital raindrops and needs to fill 9 rain barrels equally for the cloud kingdom. How many digital raindrops will fill each barrel? Divide 945 ÷ 9.

ANSWER

105

8

Signal the Messenger has 684 wireless messages to deliver to 6 different tech villages. If she divides them equally, how many messages will each village receive? Divide 684 ÷ 6.

ANSWER

114