Ancient Adventurers: A Factors Quest Through History

Math · Grade 4 · History Theme

🏛 **Help historical heroes solve their factor challenges as they explore ancient civilizations and legendary quests!**

NAME
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DATE
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SCORE
_____ / 8

1

Cleopatra of Egypt is organizing a grand feast in Alexandria with 24 guests. She wants to arrange them into equal groups at rectangular tables. List all the factors of 24 so she knows every possible table arrangement.

2

King Tut's tomb contains 36 golden artifacts that his archaeologist must display in equal rows. What are all the factors of 36 so the artifacts can be arranged in different rectangular patterns?

3

Marco Polo is planning his Silk Road journey and needs to pack 20 silk bolts into equal bundles for different trading posts. What are the factors of 20 to show all possible bundle sizes?

4

Genghis Khan commands 32 horse riders to form equal squadrons for battle. What factors of 32 show every possible squadron size he could create?

5

Joan of Arc leads soldiers and has 28 knights to divide into equal battle formations. Find all the factors of 28 to determine her formation options.

6

The Great Wall of China requires 48 stone blocks to be distributed equally among different watchtower sections. What are all the factors of 48 so each section gets the right number of blocks?

7

Pharaoh Khufu's workers are arranging 30 limestone blocks into equal rows for the pyramid. List all factors of 30 to show every possible row arrangement.

8

Christopher Columbus's three ships must carry 18 barrels of supplies divided equally among the vessels. What are all the factors of 18 to determine supply distribution options?

Answer Key

1

Cleopatra of Egypt is organizing a grand feast in Alexandria with 24 guests. She wants to arrange them into equal groups at rectangular tables. List all the factors of 24 so she knows every possible table arrangement.

ANSWER

1, 2, 3, 4, 6, 8, 12, 24

2

King Tut's tomb contains 36 golden artifacts that his archaeologist must display in equal rows. What are all the factors of 36 so the artifacts can be arranged in different rectangular patterns?

ANSWER

1, 2, 3, 4, 6, 9, 12, 18, 36

3

Marco Polo is planning his Silk Road journey and needs to pack 20 silk bolts into equal bundles for different trading posts. What are the factors of 20 to show all possible bundle sizes?

ANSWER

1, 2, 4, 5, 10, 20

4

Genghis Khan commands 32 horse riders to form equal squadrons for battle. What factors of 32 show every possible squadron size he could create?

ANSWER

1, 2, 4, 8, 16, 32

5

Joan of Arc leads soldiers and has 28 knights to divide into equal battle formations. Find all the factors of 28 to determine her formation options.

ANSWER

1, 2, 4, 7, 14, 28

6

The Great Wall of China requires 48 stone blocks to be distributed equally among different watchtower sections. What are all the factors of 48 so each section gets the right number of blocks?

ANSWER

1, 2, 3, 4, 6, 8, 12, 16, 24, 48

7

Pharaoh Khufu's workers are arranging 30 limestone blocks into equal rows for the pyramid. List all factors of 30 to show every possible row arrangement.

ANSWER

1, 2, 3, 5, 6, 10, 15, 30

8

Christopher Columbus's three ships must carry 18 barrels of supplies divided equally among the vessels. What are all the factors of 18 to determine supply distribution options?

ANSWER

1, 2, 3, 6, 9, 18