

Digital Adventures: Fractions in the Tech Kingdom

Math

Grade 4

Technology Theme

Help your tech friends solve these fraction adventures by calculating, comparing, and discovering how fractions power the digital world!

NAME _____

DATE _____

SCORE _____ / 8

1

Pixel the robot is downloading a video game. The game is split into 8 equal parts. If Pixel has already downloaded 3 parts, what fraction of the game has been downloaded? Write your answer as a fraction.

2

Circuit the AI assistant is organizing a server farm with 12 computers. $\frac{1}{4}$ of the computers are used for storing photos, and $\frac{1}{4}$ are used for storing videos. How many computers are used for photos and videos combined?

3

Widget the smart speaker is playing a 60-minute playlist of digital music. The first song takes up $\frac{1}{4}$ of the total time. How many minutes long is the first song?

4

Cyber the hacker is breaking a code that has 16 digits. She has cracked $\frac{1}{2}$ of the code. How many digits has Cyber successfully decrypted?

5

Data the cloud storage guardian has 20 gigabytes of space. Users have filled $\frac{3}{5}$ of the storage with their files. How many gigabytes are currently being used?

6

Byte the programmer is fixing 24 lines of buggy code. He has already fixed $\frac{2}{3}$ of them. How many lines of code are still broken and need fixing?

7

Scroll the smartphone has a battery that lasts 100 minutes. After a long day of gaming, only $\frac{1}{5}$ of the battery remains. How many minutes of battery life does Scroll have left?

8

Network the internet router is distributing bandwidth among 4 gaming devices equally. If $\frac{1}{4}$ of the total bandwidth goes to each device and the first device gets 5 megabytes, how many total megabytes of bandwidth are available to distribute?

Answer Key

Math

Grade 4

For Parents and Teachers

1

Pixel the robot is downloading a video game. The game is split into 8 equal parts. If Pixel has already downloaded 3 parts, what fraction of the game has been downloaded? Write your answer as a fraction.

ANSWER

3/8

2

Circuit the AI assistant is organizing a server farm with 12 computers. $\frac{1}{4}$ of the computers are used for storing photos, and $\frac{1}{4}$ are used for storing videos. How many computers are used for photos and videos combined?

ANSWER

6 computers

3

Widget the smart speaker is playing a 60-minute playlist of digital music. The first song takes up $\frac{1}{4}$ of the total time. How many minutes long is the first song?

ANSWER

15 minutes

4

Cyber the hacker is breaking a code that has 16 digits. She has cracked $\frac{1}{2}$ of the code. How many digits has Cyber successfully decrypted?

ANSWER

8 digits

5

Data the cloud storage guardian has 20 gigabytes of space. Users have filled $\frac{3}{5}$ of the storage with their files. How many gigabytes are currently being used?

ANSWER

12 gigabytes

6

Byte the programmer is fixing 24 lines of buggy code. He has already fixed $\frac{2}{3}$ of them. How many lines of code are still broken and need fixing?

ANSWER

8 lines of code

7

Scroll the smartphone has a battery that lasts 100 minutes. After a long day of gaming, only $\frac{1}{5}$ of the battery remains. How many minutes of battery life does Scroll have left?

ANSWER

20 minutes

8

Network the internet router is distributing bandwidth among 4 gaming devices equally. If $\frac{1}{4}$ of the total bandwidth goes to each device and the first device gets 5 megabytes, how many total megabytes of bandwidth are available to distribute?

ANSWER

20 megabytes