

# Robot Adventures: Fraction Quest

Math

Grade 3

Robots Theme

Help Rodney and the robot crew solve these amazing fraction adventures!

NAME \_\_\_\_\_

DATE \_\_\_\_\_

SCORE \_\_\_\_\_ / 8

1

Rodney is building a new robot friend and needs to paint  $\frac{1}{4}$  of the robot's body blue and  $\frac{1}{4}$  red. What fraction of the robot will be painted in total?

  
  

2

Bigweld's factory has a pizza cut into 8 equal slices. Crank steals  $\frac{3}{8}$  of the pizza for a snack. How much pizza is left for the other robots?

  
  

3

Fender found a treasure chest containing 12 spare robot parts. He gives  $\frac{1}{3}$  of them to Piper and keeps the rest. How many parts does Fender keep?

  
  

4

Aunt Fannie is making oil soup for all the robots. She uses  $\frac{1}{2}$  cup of oil in the morning and  $\frac{1}{2}$  cup in the evening. How much oil does she use in total?

  
  

5

Rodney's scrap-collecting robot buddies collected trash. They found  $\frac{1}{6}$  of scrap metal on Monday and  $\frac{2}{6}$  on Tuesday. What fraction did they collect in those two days?

  
  

6

There are 20 robots in Bigweld's factory.  $\frac{1}{4}$  of them are painting robots. How many painting robots are there?

  
  

7

Piper is organizing the spare parts warehouse. She finds that  $\frac{1}{5}$  of the shelves hold gears and  $\frac{2}{5}$  hold bolts. What fraction of shelves hold either gears or bolts?

  
  

8

Rory the robot needs to travel through the factory. He completes  $\frac{2}{3}$  of the journey in the morning and  $\frac{1}{3}$  in the afternoon. Did he finish the whole journey?



# Answer Key

Math

Grade 3

For Parents and Teachers

1

Rodney is building a new robot friend and needs to paint  $\frac{1}{4}$  of the robot's body blue and  $\frac{1}{4}$  red. What fraction of the robot will be painted in total?

ANSWER

$\frac{1}{2}$

2

Bigweld's factory has a pizza cut into 8 equal slices. Crank steals  $\frac{3}{8}$  of the pizza for a snack. How much pizza is left for the other robots?

ANSWER

$\frac{5}{8}$

3

Fender found a treasure chest containing 12 spare robot parts. He gives  $\frac{1}{3}$  of them to Piper and keeps the rest. How many parts does Fender keep?

ANSWER

8 parts

4

Aunt Fannie is making oil soup for all the robots. She uses  $\frac{1}{2}$  cup of oil in the morning and  $\frac{1}{2}$  cup in the evening. How much oil does she use in total?

ANSWER

1 full cup

5

Rodney's scrap-collecting robot buddies collected trash. They found  $\frac{1}{6}$  of scrap metal on Monday and  $\frac{2}{6}$  on Tuesday. What fraction did they collect in those two days?

ANSWER

$\frac{3}{6}$  or  $\frac{1}{2}$

6

There are 20 robots in Bigweld's factory.  $\frac{1}{4}$  of them are painting robots. How many painting robots are there?

ANSWER

5 robots

7

Piper is organizing the spare parts warehouse. She finds that  $\frac{1}{5}$  of the shelves hold gears and  $\frac{2}{5}$  hold bolts. What fraction of shelves hold either gears or bolts?

ANSWER

$\frac{3}{5}$

8

Rory the robot needs to travel through the factory. He completes  $\frac{2}{3}$  of the journey in the morning and  $\frac{1}{3}$  in the afternoon. Did he finish the whole journey?

ANSWER

Yes,  $\frac{2}{3} + \frac{1}{3} = \frac{3}{3}$  or 1 whole journey