

## Fraction mixed operations word problems

---

### Grade 5 Word Problems Worksheet

1. At the fun fair, the pony rides take about  $\frac{1}{6}$  of an hour to finish. If there are 3 ponies and 24 kids in front of Emma. How long does Emma need to wait before it is her turn for the pony ride?
  
  
  
  
  
  
  
  
  
  
2. At the food booth, there are 3 types of pizza to choose from. There are  $26\frac{1}{4}$  cheese pizzas,  $16\frac{1}{8}$  pepperoni pizzas and  $9\frac{3}{8}$  pepper pizzas. How many pizzas are available for vegetarians?
  
  
  
  
  
  
  
  
  
  
3.  $\frac{1}{8}$  of a pizza costs 2 dollars. In an hour,  $6\frac{1}{4}$  pizzas were sold. How much money was made at the food booth in that hour?



4. Raffle tickets are sold, and 6 prizes are available for the lucky draw. A total of 1,356 raffle tickets are sold for  $\frac{4}{5}$  dollars each and the 6 prizes cost  $8\frac{3}{10}$  each. How much money was raised from the raffle tickets?
  
5. The students setup 30 game booths; the teachers also setup some. If  $\frac{5}{6}$  of the game booths were set up by the students, how many game booths are there in total?
  
6. There is a total of 2,512 people attending the fun fair.  $\frac{5}{8}$  of attendees are students and  $\frac{1}{4}$  of attendees are parents. The rest of the attendees are people living in the neighbourhood. How many of the attendees are people living in the neighbourhood?

## Answers

- $$\frac{1}{6} \times (24 \div 3) = 1\frac{1}{3}$$

Emma needs to wait  $1\frac{1}{3}$  hours before it is her turn.
- $$26\frac{1}{4} + 9\frac{3}{8} = 35\frac{5}{8}$$

There are  $35\frac{5}{8}$  pizzas available for vegetarians.
- $$6\frac{1}{4} \div \frac{1}{8} \times 2 = 100$$

The food booth made \$100.
- $$1,356 \times \frac{4}{5} - 6 \times 8\frac{3}{10} = 1,035$$

\$1,035 is raised from the raffle tickets.
- $$30 \div \frac{5}{6} = 36$$

There are 36 game booths in total.
- $$2,512 \times \left(1 - \frac{5}{8} - \frac{1}{4}\right) = 314$$

314 attendees are people living in the neighbourhood.