

Name: Class:

Divide fractions and mixed numbers: word problems.

1. Frank was given punishment at school for disturbing in class. He completes $\frac{3}{4}$ of his punishment in $5\frac{1}{2}$ hours. How many hours does he need to finish the whole punishment? Write your answer as a mixed number.
2. John want to fill some bags with sand to block water from entering his farm. He has $5\frac{1}{2}$ loads of sand. If he puts $\frac{2}{3}$ of the load into each bag, how many bags can he fill?
3. Yesterday, Peter brought 50 boxes of vegetable oil to be distributed at a family reunion. He gave each person $\frac{1}{2}$ a box of vegetable oil. How many people were at the family reunion?
4. The children's playground is opened every day for $8\frac{1}{2}$ hours during the day. There are 5 cleaners and they clean the playground on shifts. If each shift is $2\frac{1}{4}$ hours, how many shifts are there per day?
5. Clovis is a baker and he just got a very big contract to supply cakes to various bakeries in the city. He has $15\frac{1}{2}$ cups of flour. This is just $\frac{3}{4}$ of the number of cups he needs to bake the cakes. How many cups does he need?
6. Jude has 30 marbles. He intends to give each of the kids in kindergarten some of his marbles so that they can play with it. If each kid received $\frac{2}{3}$ of this marbles, how many kids are in the kindergarten?
7. I have a piece of cloth that is 21 yards in length. I want to divide the piece of cloth evenly into $\frac{3}{4}$ yards. How many pieces will I be able to divide the cloth into?
8. Sharon has $18\frac{1}{3}$ litres of lemonade that she intends to share it evenly into 6 containers equally for her visitors. How much lemonade will be in each glass?
9. Janice has a stick that is 144 inches in length. If he cut the stick into $2\frac{1}{4}$ inches pieces, how many pieces will he have?

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1. Frank was given punishment at school for disturbing in class. He completes $\frac{3}{4}$ of his punishment in $5\frac{1}{2}$ hours. How many hours does he need to finish the whole punishment? Write your answer as a mixed number.

If Frank completes $\frac{3}{4}$ of his punishment in $5\frac{1}{2}$ hours.

He will complete the punishment in $5\frac{1}{2} \div \frac{3}{4}$

$$5\frac{1}{2} \div \frac{3}{4} = \frac{(5 \times 2) + 1}{2} \div \frac{3}{4} = \frac{11}{2} \times \frac{4}{3}$$

$$= \frac{11}{2} \times \frac{4}{3} = \frac{44}{6}$$

$$= \frac{44 \div 2}{6 \div 2} = \frac{22}{3} = 3 \overline{)22} = 7\frac{1}{3}$$

He needs $7\frac{1}{3}$ hours to finish the whole punishment.

2. Therefore, he can fill $8\frac{1}{4}$ bags with $5\frac{1}{2}$ loads of sand

3. So, there were 100 people at the reunion.

4. So, there are $3\frac{7}{9}$ shifts per day.

5. So, he needs $20\frac{2}{3}$ cups of flour.

6. So, there are 45 kids in the kindergarten.

7. So, I will be able to divide the piece of cloth into 28 pieces of length.

8. So, each container will take $3\frac{1}{18}$ litres of wine.

9. So, he will have 64 pieces of stick.