mathskills4kids

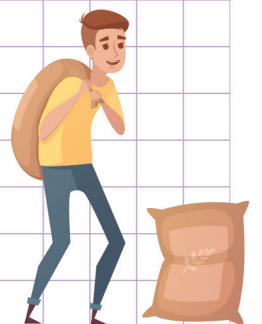## Divide fractions and mixed numbers: word problems.

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?

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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.

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} = $

$\begin{array}{r} 7 \\ 3\overline{)22} \\ -21 \\ \hline 1 \end{array} = 7\frac{1}{3}$

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

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?

to solve this problem, we need to divide $5\frac{1}{2}$ loads of sand by $\frac{2}{3}$

$5\frac{1}{2} \div \frac{2}{3}$

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

$= \frac{11}{2} \times \frac{3}{2} = \frac{33}{4}$

$\frac{33}{4} = $

$\begin{array}{r} 8 \\ 4\overline{)33} \\ -32 \\ \hline 1 \end{array} = 8\frac{1}{4}$

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