

Fraction multiplication word problems

Grade 5 Word Problems Worksheet

1. Mrs. Smith had $\frac{5}{6}$ of a sack of garden soil for her plants. She used $\frac{2}{3}$ of it for planting 6 pots of plants. How much garden soil did she use?
2. Martha brought out 9 empty pots for planting and put in some soil and fertilizer mixture from the bag. Each pot used $\frac{1}{20}$ kilograms of the mixture. If there was enough soil and fertilizer mixture for 8 pots, how much mixture was there in the sack?
3. Mr. Brown can plow $\frac{8}{9}$ acres of land a day. It rained yesterday so he was only able to finish $\frac{3}{4}$ of his usual area. How much land was he able to plow yesterday?



4. Ethan is a farmer. He spends 50 hours each week working on the farm. In the summer, Ethan spends $\frac{4}{11}$ of his time cleaning and $\frac{2}{9}$ of his time feeding the animals. How many hours does he spend feeding the animals every week?

5. The new variety of pumpkin which Jonathan grows weighs about 150 lbs. The old variety's weight was only $\frac{1}{5}$ of the new variety. How light was the old variety as compared to the new variety of pumpkin?

6. According to the instructions, $\frac{2}{9}$ liters of liquid fertilizer can fertilize 12 pots of plants. To be safe, Emilio decides to use $\frac{5}{6}$ of the liquid fertilizer. How much liquid fertilizer did Emilio use?

Answers

1. $\frac{5}{6} \times \frac{2}{3} = \frac{10}{18}$ or $\frac{5}{9}$

Mrs. Smith used $\frac{5}{9}$ of the sack of garden soil for 6 pots.

2. $\frac{1}{20} \times 8 = \frac{2}{5}$

The sack contained $\frac{2}{5}$ kilograms of soil and fertilizer mixture.

3. $\frac{8}{9} \times \frac{3}{4} = \frac{24}{36} = \frac{2}{3}$

Mr. Brown was able to plow $\frac{2}{3}$ acres of land yesterday.

4. $\frac{2}{9} \times 50 = 11 \frac{1}{9}$

Ethan spends $11 \frac{1}{9}$ hours a week feeding the animals.

5. $150 \text{ lbs.} \times \frac{1}{5} = 30 \text{ lbs.}$

The old variety of pumpkin only weighed around 30 lbs.

6. $\frac{2}{9} \times \frac{5}{6} = \frac{5}{27}$

Emilio used $\frac{5}{27}$ liters of liquid fertilizer to fertilize 12 pots of plants.