

20. Fraction Multiplication Word Problems

a)

Xiao Ming has 12 candies and ate $\frac{2}{3}$ of them. How many did he eat?

$$\begin{aligned} 12 \times \frac{2}{3} &= 12 \times 2 \times \frac{1}{3} = 12 \times \frac{1}{3} \times 2 \\ &= \frac{12}{3} \times 2 = 4 \times 2 = 8 \end{aligned}$$

Answer: He ate 8 candies.

A book has 80 pages. Xiao Li read $\frac{3}{5}$ of them. How many pages did she read?

$$\begin{aligned} 80 \times \frac{3}{5} &= 80 \times 3 \times \frac{1}{5} = 80 \times \frac{1}{5} \times 3 \\ &= \frac{80}{5} \times 3 = 16 \times 3 = 48 \end{aligned}$$

Answer: She read 48 pages.

A field is 60 m². $\frac{2}{5}$ was planted with vegetables. How many m² is the vegetable field?

$$\begin{aligned} 60 \times \frac{2}{5} &= 60 \times 2 \times \frac{1}{5} = 60 \times \frac{1}{5} \times 2 \\ &= \frac{60}{5} \times 2 = 12 \times 2 = 24 \end{aligned}$$

Answer: The vegetable field is 24 m².

(Case where division is not exact)

$$\begin{aligned} 7 \times \frac{5}{3} &= 7 \times 5 \times \frac{1}{3} = 35 \times \frac{1}{3} \\ &= \frac{35}{3} = 35/3 \end{aligned}$$

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b)

A box has **24** apples. Xiao Hong took **1/4** of them.

How many apples did she take?

$$24 \times 1/4 = \text{[]}$$

c)

A road is **36** km long. **5/6** of it has been repaired.

How many km were repaired?

$$36 \times 5/6 = \text{[]}$$

d)

Xiao Ming has **30** yuan and spent **2/3** of it on stationery.

How much did he spend?

$$30 \times 2/3 = \text{[]}$$

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e)

A bag of rice weighs **18** kg. **$\frac{5}{9}$** of it was eaten.

How many kg were eaten?

$$18 \times \frac{5}{9} = \boxed{}$$

f)

The school has **45** trees, and **$\frac{4}{5}$** of them are fruit trees.

How many fruit trees are there?

$$45 \times \frac{4}{5} = \boxed{}$$