

Fractions — Multiply & Divide

Fractions, Decimals & % · Grade 5

Score: _____ / 12

◆ Medium · 12 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. $\frac{2}{3} \times \frac{3}{4} = \underline{\hspace{2cm}}$

Answer: _____

2. $\frac{3}{5} \times \frac{5}{9} = \underline{\hspace{2cm}}$

Answer: _____

3. $\frac{4}{7} \times \frac{7}{8} = \underline{\hspace{2cm}}$

Answer: _____

4. $\frac{2}{5} \times \frac{3}{4} = \underline{\hspace{2cm}}$

Answer: _____

5. $\frac{5}{6} \times \frac{3}{10} = \underline{\hspace{2cm}}$

Answer: _____

6. A recipe needs $\frac{3}{4}$ cup of sugar.

Mia makes $\frac{2}{3}$ of the recipe.

How much sugar does she need?

Answer: _____

7. $\frac{7}{8} \times \frac{4}{5} = \underline{\hspace{2cm}}$

Answer: _____

8. A wall is $\frac{5}{6}$ of a metre wide. A tile covers $\frac{3}{5}$ of the wall.

What fraction of a metre does the tile cover?

Answer: _____

9. $\frac{9}{10} \times \frac{5}{6} = \underline{\hspace{2cm}}$

Answer: _____

10. What is $\frac{2}{3}$ of $\frac{3}{8}$?

Answer: _____

11. $\frac{8}{9} \times \frac{3}{4} = \underline{\hspace{2cm}}$

Answer: _____

- 12.** A field is $\frac{3}{4}$ km long. A fence covers $\frac{2}{5}$ of its length.
How long is the fence?

Answer: _____

Answer Key

Fractions — Multiply & Divide — Medium

1. **$\frac{1}{2}$**

Multiply numerators: $2 \times 3 = 6$. Multiply denominators: $3 \times 4 = 12$. $\frac{6}{12} = \frac{1}{2}$.

2. **$\frac{1}{3}$**

$3 \times 5 = 15$, $5 \times 9 = 45$. $\frac{15}{45} = \frac{1}{3}$. Or cancel: $\frac{3}{5} \times \frac{5}{9} = \frac{3}{9} = \frac{1}{3}$.

3. **$\frac{1}{2}$**

Cancel 7s: $\frac{4}{1} \times \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$.

4. **$\frac{6}{20} = \frac{3}{10}$**

$2 \times 3 = 6$, $5 \times 4 = 20$. $\frac{6}{20} = \frac{3}{10}$.

5. **$\frac{1}{4}$**

Cancel: 5 and 10 $\rightarrow$ 1 and 2. Cancel: 3 and 6 $\rightarrow$ 1 and 2. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$.

6. **$\frac{1}{2}$ cup**

$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$ cup.

7. **$\frac{7}{10}$**

Cancel 4 and 8: $\frac{7}{2} \times \frac{1}{5} = \frac{7}{10}$.

8. **$\frac{1}{2}$ m**

$\frac{5}{6} \times \frac{3}{5} = \frac{15}{30} = \frac{1}{2}$.

9. **$\frac{3}{4}$**

Cancel: 9 and 6 $\rightarrow$ 3 and 2. Cancel: 5 and 10 $\rightarrow$ 1 and 2. $\frac{3}{2} \times \frac{1}{2} = \frac{3}{4}$.

10. **$\frac{1}{4}$**

'Of' means multiply. $\frac{2}{3} \times \frac{3}{8} = \frac{6}{24} = \frac{1}{4}$.

11. $\frac{2}{3}$

Cancel: 8 and 4 $\rightarrow$ 2 and 1. Cancel: 3 and 9 $\rightarrow$ 1 and 3. $\frac{2}{3} \times \frac{1}{1} = \frac{2}{3}$.

12. $\frac{3}{10}$ km

$\frac{3}{4} \times \frac{2}{5} = \frac{6}{20} = \frac{3}{10}$ km.
