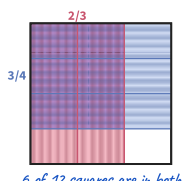


Multiplying Fractions

ANSWERS

1

Work out $\frac{2}{3} \times \frac{3}{4}$. Give your answer in its simplest form.

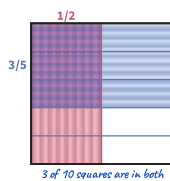


$$\frac{2}{3} \times \frac{3}{4} = \frac{2 \times 3}{3 \times 4} = \frac{6}{12} = \frac{1}{2}$$

Answer $\frac{1}{2}$

2

Work out $\frac{1}{2} \times \frac{3}{5}$. Give your answer in its simplest form.

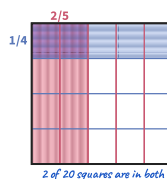


$$\frac{1}{2} \times \frac{3}{5} = \frac{1 \times 3}{2 \times 5} = \frac{3}{10}$$

Answer $\frac{3}{10}$

3

Work out $\frac{2}{5} \times \frac{1}{4}$. Give your answer in its simplest form.



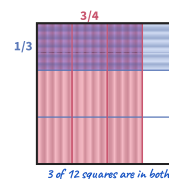
$$\frac{2}{5} \times \frac{1}{4} = \frac{2 \times 1}{5 \times 4} = \frac{2}{20}$$

Simplify: $\frac{1}{10}$

Answer $\frac{1}{10}$

4

Work out $\frac{3}{4} \times \frac{1}{3}$. Give your answer in its simplest form.



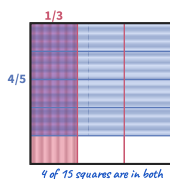
$$\frac{3}{4} \times \frac{1}{3} = \frac{3 \times 1}{4 \times 3} = \frac{3}{12}$$

Simplify: $\frac{1}{4}$

Answer $\frac{1}{4}$

5

Work out $\frac{1}{3} \times \frac{4}{5}$. Give your answer in its simplest form.

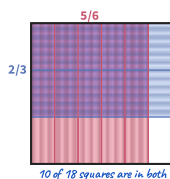


$$\frac{1}{3} \times \frac{4}{5} = \frac{1 \times 4}{3 \times 5} = \frac{4}{15}$$

Answer $\frac{4}{15}$

6

Work out $\frac{5}{6} \times \frac{2}{3}$. Give your answer in its simplest form.



$$\frac{5}{6} \times \frac{2}{3} = \frac{5 \times 2}{6 \times 3} = \frac{10}{18}$$

Simplify: $\frac{5}{9}$

Answer $\frac{5}{9}$

7

A rectangle is $\frac{3}{4}$ m long and $\frac{2}{5}$ m wide. Find its area.

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

Answer $\frac{3}{10} \text{ m}^2$

8

$\frac{2}{3}$ of a class walk to school. $\frac{1}{4}$ of the walkers walk more than a mile. What fraction of the class walk more than a mile?

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

Answer $\frac{1}{6}$

Multiplying Fractions further practice

ANSWERS

9

Work out $\frac{4}{9} \times \frac{3}{8}$. Give your answer in its simplest form.

$$\frac{4}{9} \times \frac{3}{8} = \frac{12}{72}$$

Answer $\frac{1}{6}$

10

Work out $\frac{3}{5} \times 4$. Give your answer as a mixed number.

$$4 = \frac{4}{1}, \text{ so } \frac{3}{5} \times \frac{4}{1} = \frac{12}{5}$$

Answer $2\frac{2}{5}$

11

Work out $\frac{2}{5}$ of $\frac{5}{8}$. Give your answer in its simplest form.

$$\frac{2}{5} \times \frac{5}{8} = \frac{10}{40}$$

Answer $\frac{1}{4}$

12

Find the missing number.

$$\frac{3}{4} \times \frac{\boxed{2}}{5} = \frac{3}{10}$$

$$\frac{3}{10} = \frac{6}{20}, \text{ and } 3 \times 2 = 6$$

13

Sam and Tia have bars of chocolate the same size. Sam has $\frac{3}{4}$ of a bar and eats $\frac{2}{3}$ of what he has. Tia has $\frac{5}{6}$ of a bar and eats $\frac{1}{2}$ of what she has. Who eats more chocolate?

$$\text{Sam: } \frac{6}{12} \times \frac{1}{2} = \frac{1}{2}, \text{ Tia: } \frac{5}{12}$$

Answer Sam

14

A square tile has sides of $\frac{2}{3}$ m. Work out the area of the tile.



$$\frac{2}{3} \times \frac{2}{3}$$

Answer $\frac{4}{9} \text{ m}^2$

15

A farmer plants wheat on $\frac{2}{5}$ of a field. He plants barley on $\frac{3}{4}$ of the rest of the field. What fraction of the whole field is planted with barley?

$$\text{the rest is } \frac{3}{5}, \text{ and } \frac{3}{4} \times \frac{3}{5}$$

Answer $\frac{9}{20}$

16

Without working it out, is $\frac{5}{6} \times \frac{3}{4}$ bigger or smaller than $\frac{5}{6}$? Explain.

$$\text{it is } \frac{3}{4} \text{ of } \frac{5}{6}, \text{ and } \frac{3}{4} \text{ is less than } 1$$

Answer Smaller