

Boost Free Lessons - Year 7 Maths

Lesson 6: Multiplying Fractions

Name: _____ Grade: _____ Date: _____

Worked Example 1

Evaluate $\frac{2}{3} \times \frac{4}{5}$

1. Multiply the numerators (the top numbers): $2 \times 4 = 8$.
2. Multiply the denominators (the bottom numbers): $3 \times 5 = 15$.
3. Check whether the answer simplifies. 8 and 15 share no common factor.

$$= \frac{8}{15}$$

Worked Example 2

Evaluate $\frac{3}{4} \times \frac{8}{9}$

1. Cancel common factors before multiplying. It keeps the numbers small.
2. 3 and 9 share a factor of 3, so they become 1 and 3.
3. 4 and 8 share a factor of 4, so they become 1 and 2.
4. Now multiply what is left: $\frac{1}{1} \times \frac{2}{3}$.

$$= \frac{2}{3}$$

Remember: The word “of” means multiply. You do **not** need a common denominator. Just multiply straight across, cancelling first where you can.



Question 1: Evaluate the following, giving each answer in simplest form.

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

2. $\frac{2}{5} \times \frac{3}{7}$

3. $\frac{3}{4} \times \frac{2}{5}$

4. $\frac{5}{6} \times \frac{3}{10}$

5. $\frac{2}{3} \times \frac{9}{10}$

6. $\frac{4}{7} \times \frac{7}{8}$

7. $\frac{5}{8} \times \frac{4}{15}$

8. $\frac{3}{5} \times \frac{5}{9}$

9. $\frac{7}{12} \times \frac{6}{7}$

10. $\frac{2}{9} \times \frac{3}{4}$



Question 2: Evaluate the following, giving each answer in simplest form.

1. $\frac{1}{4} \times 12$

2. $\frac{2}{3} \times 15$

3. $\frac{3}{5} \times 20$

4. $5 \times \frac{2}{7}$

5. $1\frac{1}{2} \times \frac{2}{3}$

6. $2\frac{1}{4} \times \frac{4}{9}$

7. $1\frac{2}{3} \times \frac{3}{10}$

8. $3\frac{1}{2} \times 1\frac{1}{5}$



Question 3: Answer the following questions.

1. A bag holds 24 lollies. Ella eats $\frac{3}{8}$ of them. How many lollies did she eat?
2. A recipe needs $\frac{3}{4}$ of a cup of milk. You decide to make half the recipe. How much milk do you need?
3. A rectangle is $\frac{2}{3}$ m long and $\frac{3}{5}$ m wide. Find its area.
4. $\frac{2}{5}$ of a class of 30 students play sport. Of those students, $\frac{1}{2}$ play netball. How many play netball?
5. A tank holds 60 litres and is $\frac{5}{6}$ full. How many litres are in the tank?





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Answers : Multiplying Fractions**Question 1**

1. $\frac{1}{6}$

2. $\frac{6}{35}$

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

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

5. $\frac{3}{5}$

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

7. $\frac{1}{6}$

8. $\frac{1}{3}$

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

10. $\frac{1}{6}$

Question 2

1. 3

2. 10

3. 12

4. $1\frac{3}{7}$

5. 1

6. 1

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

8. $4\frac{1}{5}$

Question 3

1. 9 lollies

2. $\frac{3}{8}$ of a cup

3. $\frac{2}{5}$ m²

4. 6 students

5. 50 litres

