

Boost Free Lessons - Year 7 Maths

Lesson 7: Dividing Fractions

Name: _____ Grade: _____ Date: _____

Worked Example 1

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

1. Use **Keep, Change, Flip**. Keep the first fraction as it is.
2. Change the division sign to a multiplication sign.
3. Flip the second fraction upside down: $\frac{3}{4} \times \frac{5}{2}$.
4. Multiply across: $\frac{15}{8}$, then write it as a mixed numeral.

$$= 1\frac{7}{8}$$

Worked Example 2

Evaluate $\frac{5}{6} \div 10$

1. Write the whole number as a fraction: $10 = \frac{10}{1}$.
2. Keep, Change, Flip: $\frac{5}{6} \times \frac{1}{10}$.
3. Cancel before multiplying. 5 and 10 share a factor of 5.
4. That leaves $\frac{1}{6} \times \frac{1}{2}$.

$$= \frac{1}{12}$$

Remember: Keep, Change, Flip. Keep the first fraction, change $\div$ to $\times$, and flip the second fraction. Only ever flip the second one.



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

1. $\frac{1}{2} \div \frac{1}{4}$

2. $\frac{2}{3} \div \frac{1}{6}$

3. $\frac{3}{5} \div \frac{2}{5}$

4. $\frac{4}{9} \div \frac{2}{3}$

5. $\frac{5}{8} \div \frac{1}{2}$

6. $\frac{7}{10} \div \frac{7}{20}$

7. $\frac{3}{4} \div \frac{9}{16}$

8. $\frac{2}{7} \div \frac{4}{21}$

9. $\frac{5}{12} \div \frac{5}{6}$

10. $\frac{8}{9} \div \frac{2}{3}$



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

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

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

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

4. $8 \div \frac{2}{3}$

5. $1\frac{1}{2} \div \frac{3}{4}$

6. $2\frac{1}{4} \div \frac{1}{2}$

7. $3\frac{1}{3} \div \frac{5}{6}$

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



Question 3: Answer the following questions.

1. A ribbon $\frac{3}{4}$ of a metre long is cut into pieces $\frac{1}{8}$ of a metre long. How many pieces are there?
2. 5 litres of juice is poured into cups holding $\frac{1}{4}$ of a litre. How many cups can be filled?
3. A recipe using $\frac{2}{3}$ of a cup of oats makes 4 servings. How much oats is in one serving?
4. A plank 6 m long is cut into lengths of $\frac{3}{4}$ m. How many lengths are there?
5. Sam walks $\frac{7}{2}$ km in $\frac{7}{4}$ hours. What is his speed in kilometres per hour?





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Answers : Dividing Fractions**Question 1**

1. 2

2. 4

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

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

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

6. 2

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

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

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

10. $1\frac{1}{3}$

Question 2

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

2. 12

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

4. 12

5. 2

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

7. 4

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

Question 3

1. 6 pieces

2. 20 cups

3. $\frac{1}{6}$ of a cup

4. 8 lengths

5. 2 km/h

