



# Estimating Multiplication of Fractions

Name: \_\_\_\_\_

Determine the answer using estimation.

When multiplying a fraction and a whole number you can estimate the answer by remembering that the fraction is just part of a number.

$5 \times 6 \frac{2}{3} =$   
 In the example above,  $6 \frac{2}{3}$  is larger than 6 but less than 7. So we know the answer is going to be between  $5 \times 6$  and  $5 \times 7$ .  
 The actual answer is  $33 \frac{1}{3}$  which is between  $5 \times 6$  (30) and  $5 \times 7$  (35).

## Answers

1)  $7 \times 6 \frac{3}{5} =$       A.  $35 \frac{1}{5}$       B.  $51 \frac{3}{5}$       C.  $53 \frac{3}{5}$       D.  $46 \frac{1}{5}$

1. \_\_\_\_\_

2)  $7 \times 7 \frac{4}{7} =$       A. 53      B. 42      C. 63      D. 59

2. \_\_\_\_\_

3)  $4 \times 5 \frac{9}{10} =$       A.  $28 \frac{9}{10}$       B.  $27 \frac{6}{10}$       C.  $23 \frac{6}{10}$       D.  $16 \frac{9}{10}$

3. \_\_\_\_\_

4)  $6 \frac{6}{9} \times 2 =$       A.  $17 \frac{6}{9}$       B.  $8 \frac{6}{9}$       C.  $18 \frac{6}{9}$       D.  $13 \frac{3}{9}$

4. \_\_\_\_\_

5)  $9 \frac{1}{2} \times 9 =$       A.  $85 \frac{1}{2}$       B.  $78 \frac{1}{2}$       C.  $92 \frac{1}{2}$       D.  $93 \frac{1}{2}$

5. \_\_\_\_\_

6)  $7 \times 6 \frac{3}{6} =$       A.  $40 \frac{3}{6}$       B.  $56 \frac{3}{6}$       C.  $45 \frac{3}{6}$       D.  $38 \frac{3}{6}$

6. \_\_\_\_\_

7)  $8 \times 9 \frac{3}{4} =$       A. 78      B.  $82 \frac{3}{4}$       C. 64      D. 84

7. \_\_\_\_\_

8)  $6 \frac{3}{5} \times 8 =$       A.  $59 \frac{4}{5}$       B.  $45 \frac{3}{5}$       C.  $52 \frac{4}{5}$       D.  $64 \frac{4}{5}$

8. \_\_\_\_\_

9)  $8 \times 9 \frac{4}{6} =$       A.  $69 \frac{2}{6}$       B.  $83 \frac{2}{6}$       C.  $84 \frac{2}{6}$       D.  $77 \frac{2}{6}$

9. \_\_\_\_\_

10)  $8 \times 4 \frac{1}{2} =$       A. 44      B.  $29 \frac{1}{2}$       C. 36      D. 30

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_



## Estimating Multiplication of Fractions

Name: **Answer Key**

Determine the answer using estimation.

When multiplying a fraction and a whole number you can estimate the answer by remembering that the fraction is just part of a number.

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

In the example above,  $6 \frac{2}{3}$  is larger than 6 but less than 7. So we know the answer is going to be between  $5 \times 6$  and  $5 \times 7$ .

$$5 \times 6 \frac{2}{3} = 33 \frac{1}{3}$$

The actual answer is  $33 \frac{1}{3}$  which is between  $5 \times 6$  (30) and  $5 \times 7$  (35).

1)  $7 \times 6 \frac{3}{5} =$       A.  $35 \frac{1}{5}$       B.  $51 \frac{3}{5}$       C.  $53 \frac{3}{5}$       D.  $46 \frac{1}{5}$

2)  $7 \times 7 \frac{4}{7} =$       A. 53      B. 42      C. 63      D. 59

3)  $4 \times 5 \frac{9}{10} =$       A.  $28 \frac{9}{10}$       B.  $27 \frac{6}{10}$       C.  $23 \frac{6}{10}$       D.  $16 \frac{9}{10}$

4)  $6 \frac{6}{9} \times 2 =$       A.  $17 \frac{6}{9}$       B.  $8 \frac{6}{9}$       C.  $18 \frac{6}{9}$       D.  $13 \frac{3}{9}$

5)  $9 \frac{1}{2} \times 9 =$       A.  $85 \frac{1}{2}$       B.  $78 \frac{1}{2}$       C.  $92 \frac{1}{2}$       D.  $93 \frac{1}{2}$

6)  $7 \times 6 \frac{3}{6} =$       A.  $40 \frac{3}{6}$       B.  $56 \frac{3}{6}$       C.  $45 \frac{3}{6}$       D.  $38 \frac{3}{6}$

7)  $8 \times 9 \frac{3}{4} =$       A. 78      B.  $82 \frac{3}{4}$       C. 64      D. 84

8)  $6 \frac{3}{5} \times 8 =$       A.  $59 \frac{4}{5}$       B.  $45 \frac{3}{5}$       C.  $52 \frac{4}{5}$       D.  $64 \frac{4}{5}$

9)  $8 \times 9 \frac{4}{6} =$       A.  $69 \frac{2}{6}$       B.  $83 \frac{2}{6}$       C.  $84 \frac{2}{6}$       D.  $77 \frac{2}{6}$

10)  $8 \times 4 \frac{1}{2} =$       A. 44      B.  $29 \frac{1}{2}$       C. 36      D. 30

**Answers**

1. **D**

2. **A**

3. **C**

4. **D**

5. **A**

6. **C**

7. **A**

8. **C**

9. **D**

10. **C**

11. **A**

12. **A**