



# 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  $5 \times 7$ .  
 $5 \times 6 \frac{2}{3} = 33 \frac{1}{3}$   
 The actual answer is  $33 \frac{1}{3}$  which is between  $5 \times 6$  (30) and  $5 \times 7$  (35).

## Answers

- 1)  $5 \times 2 \frac{2}{4} =$       A.  $8 \frac{2}{4}$       B.  $6 \frac{2}{4}$       C.  $18 \frac{2}{4}$       D.  $12 \frac{2}{4}$
- 2)  $3 \frac{2}{3} \times 7 =$       A.  $25 \frac{2}{3}$       B.  $31 \frac{2}{3}$       C.  $18 \frac{2}{3}$       D.  $35 \frac{2}{3}$
- 3)  $7 \frac{1}{5} \times 6 =$       A.  $40 \frac{1}{5}$       B.  $43 \frac{1}{5}$       C.  $50 \frac{1}{5}$       D.  $36 \frac{1}{5}$
- 4)  $3 \times 4 \frac{2}{6} =$       A. 8      B. 13      C. 18      D. 10
- 5)  $2 \times 6 \frac{5}{8} =$       A.  $13 \frac{2}{8}$       B.  $9 \frac{2}{8}$       C.  $16 \frac{2}{8}$       D.  $8 \frac{5}{8}$
- 6)  $4 \frac{2}{3} \times 5 =$       A.  $23 \frac{1}{3}$       B.  $17 \frac{2}{3}$       C.  $28 \frac{1}{3}$       D.  $18 \frac{1}{3}$
- 7)  $9 \times 8 \frac{4}{9} =$       A. 76      B.  $85 \frac{4}{9}$       C.  $69 \frac{4}{9}$       D. 90
- 8)  $7 \frac{2}{4} \times 9 =$       A.  $81 \frac{2}{4}$       B.  $74 \frac{2}{4}$       C.  $75 \frac{2}{4}$       D.  $67 \frac{2}{4}$
- 9)  $2 \times 9 \frac{1}{6} =$       A.  $18 \frac{2}{6}$       B.  $14 \frac{1}{6}$       C.  $23 \frac{1}{6}$       D.  $22 \frac{2}{6}$
- 10)  $2 \times 3 \frac{6}{8} =$       A.  $7 \frac{4}{8}$       B.  $10 \frac{6}{8}$       C.  $10 \frac{4}{8}$       D.  $3 \frac{4}{8}$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
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)  | $5 \times 2 \frac{2}{4} =$ | A. $8 \frac{2}{4}$  | B. $6 \frac{2}{4}$  | C. $18 \frac{2}{4}$ | D. $12 \frac{2}{4}$ | 1. <b>D</b>  |
| 2)  | $3 \frac{2}{3} \times 7 =$ | A. $25 \frac{2}{3}$ | B. $31 \frac{2}{3}$ | C. $18 \frac{2}{3}$ | D. $35 \frac{2}{3}$ | 2. <b>A</b>  |
| 3)  | $7 \frac{1}{5} \times 6 =$ | A. $40 \frac{1}{5}$ | B. $43 \frac{1}{5}$ | C. $50 \frac{1}{5}$ | D. $36 \frac{1}{5}$ | 3. <b>B</b>  |
| 4)  | $3 \times 4 \frac{2}{6} =$ | A. 8                | B. 13               | C. 18               | D. 10               | 4. <b>B</b>  |
| 5)  | $2 \times 6 \frac{5}{8} =$ | A. $13 \frac{2}{8}$ | B. $9 \frac{2}{8}$  | C. $16 \frac{2}{8}$ | D. $8 \frac{5}{8}$  | 5. <b>A</b>  |
| 6)  | $4 \frac{2}{3} \times 5 =$ | A. $23 \frac{1}{3}$ | B. $17 \frac{2}{3}$ | C. $28 \frac{1}{3}$ | D. $18 \frac{1}{3}$ | 6. <b>A</b>  |
| 7)  | $9 \times 8 \frac{4}{9} =$ | A. 76               | B. $85 \frac{4}{9}$ | C. $69 \frac{4}{9}$ | D. 90               | 7. <b>A</b>  |
| 8)  | $7 \frac{2}{4} \times 9 =$ | A. $81 \frac{2}{4}$ | B. $74 \frac{2}{4}$ | C. $75 \frac{2}{4}$ | D. $67 \frac{2}{4}$ | 8. <b>D</b>  |
| 9)  | $2 \times 9 \frac{1}{6} =$ | A. $18 \frac{2}{6}$ | B. $14 \frac{1}{6}$ | C. $23 \frac{1}{6}$ | D. $22 \frac{2}{6}$ | 9. <b>A</b>  |
| 10) | $2 \times 3 \frac{6}{8} =$ | A. $7 \frac{4}{8}$  | B. $10 \frac{6}{8}$ | C. $10 \frac{4}{8}$ | D. $3 \frac{4}{8}$  | 10. <b>A</b> |

**Answers**

- |       |    |    |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|----|----|
| 11-12 | 92 | 83 | 75 | 67 | 58 | 50 | 42 | 33 | 25 | 17 |
|       | 8  | 0  |    |    |    |    |    |    |    |    |