



# Estimating Multiplication of Fractions

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

Determine the answer using estimation.

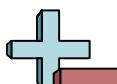
When multiplying a fraction and a whole number you can estimate the answer by remembering that the fraction is just part of a number.

$5 \times 6 \frac{2}{3} =$   
 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)  $9 \frac{4}{10} \times 3 =$       A.  $28 \frac{2}{10}$       B.  $25 \frac{4}{10}$       C.  $34 \frac{2}{10}$       D.  $32 \frac{4}{10}$
- 2)  $3 \times 7 \frac{4}{9} =$       A.  $17 \frac{4}{9}$       B.  $28 \frac{3}{9}$       C.  $22 \frac{3}{9}$       D.  $28 \frac{4}{9}$
- 3)  $7 \times 3 \frac{1}{2} =$       A.  $17 \frac{1}{2}$       B.  $31 \frac{1}{2}$       C.  $18 \frac{1}{2}$       D.  $24 \frac{1}{2}$
- 4)  $7 \times 2 \frac{5}{8} =$       A.  $18 \frac{3}{8}$       B.  $24 \frac{3}{8}$       C.  $11 \frac{3}{8}$       D.  $28 \frac{3}{8}$
- 5)  $8 \times 3 \frac{4}{8} =$       A. 28      B. 21      C. 20      D. 34
- 6)  $4 \times 4 \frac{4}{6} =$       A.  $14 \frac{4}{6}$       B.  $12 \frac{4}{6}$       C.  $18 \frac{4}{6}$       D.  $22 \frac{4}{6}$
- 7)  $8 \times 4 \frac{4}{6} =$       A.  $37 \frac{2}{6}$       B.  $42 \frac{2}{6}$       C.  $48 \frac{2}{6}$       D.  $43 \frac{2}{6}$
- 8)  $4 \frac{1}{2} \times 7 =$       A.  $38 \frac{1}{2}$       B.  $37 \frac{1}{2}$       C.  $21 \frac{1}{2}$       D.  $31 \frac{1}{2}$
- 9)  $5 \times 5 \frac{6}{8} =$       A.  $21 \frac{6}{8}$       B.  $28 \frac{6}{8}$       C.  $33 \frac{6}{8}$       D.  $23 \frac{6}{8}$
- 10)  $4 \times 5 \frac{1}{3} =$       A.  $16 \frac{1}{3}$       B.  $21 \frac{1}{3}$       C.  $26 \frac{1}{3}$       D.  $28 \frac{1}{3}$

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



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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. **A**

2. **C**

3. **D**

4. **A**

5. **A**

6. **C**

7. **A**

8. **D**

9. **B**

10. **B**

11. **A**

12. **B**

1)  $9 \frac{4}{10} \times 3 =$       A.  $28 \frac{2}{10}$       B.  $25 \frac{4}{10}$       C.  $34 \frac{2}{10}$       D.  $32 \frac{4}{10}$

2)  $3 \times 7 \frac{4}{9} =$       A.  $17 \frac{4}{9}$       B.  $28 \frac{3}{9}$       C.  $22 \frac{3}{9}$       D.  $28 \frac{4}{9}$

3)  $7 \times 3 \frac{1}{2} =$       A.  $17 \frac{1}{2}$       B.  $31 \frac{1}{2}$       C.  $18 \frac{1}{2}$       D.  $24 \frac{1}{2}$

4)  $7 \times 2 \frac{5}{8} =$       A.  $18 \frac{3}{8}$       B.  $24 \frac{3}{8}$       C.  $11 \frac{3}{8}$       D.  $28 \frac{3}{8}$

5)  $8 \times 3 \frac{4}{8} =$       A. 28      B. 21      C. 20      D. 34

6)  $4 \times 4 \frac{4}{6} =$       A.  $14 \frac{4}{6}$       B.  $12 \frac{4}{6}$       C.  $18 \frac{4}{6}$       D.  $22 \frac{4}{6}$

7)  $8 \times 4 \frac{4}{6} =$       A.  $37 \frac{2}{6}$       B.  $42 \frac{2}{6}$       C.  $48 \frac{2}{6}$       D.  $43 \frac{2}{6}$

8)  $4 \frac{1}{2} \times 7 =$       A.  $38 \frac{1}{2}$       B.  $37 \frac{1}{2}$       C.  $21 \frac{1}{2}$       D.  $31 \frac{1}{2}$

9)  $5 \times 5 \frac{6}{8} =$       A.  $21 \frac{6}{8}$       B.  $28 \frac{6}{8}$       C.  $33 \frac{6}{8}$       D.  $23 \frac{6}{8}$

10)  $4 \times 5 \frac{1}{3} =$       A.  $16 \frac{1}{3}$       B.  $21 \frac{1}{3}$       C.  $26 \frac{1}{3}$       D.  $28 \frac{1}{3}$



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

## Answers

- 1)  $3 \frac{1}{2} \times 7 =$       A.  $14 \frac{1}{2}$       B.  $18 \frac{1}{2}$       C.  $24 \frac{1}{2}$       D.  $35 \frac{1}{2}$
- 2)  $6 \frac{3}{8} \times 3 =$       A.  $19 \frac{1}{8}$       B.  $24 \frac{1}{8}$       C.  $16 \frac{3}{8}$       D.  $16 \frac{1}{8}$
- 3)  $2 \frac{3}{8} \times 6 =$       A.  $9 \frac{2}{8}$       B.  $14 \frac{2}{8}$       C.  $22 \frac{3}{8}$       D.  $6 \frac{2}{8}$
- 4)  $8 \times 3 \frac{1}{4} =$       A. 26      B. 20      C.  $35 \frac{1}{4}$       D.  $20 \frac{1}{4}$
- 5)  $8 \times 2 \frac{3}{6} =$       A. 20      B. 28      C.  $26 \frac{3}{6}$       D.  $27 \frac{3}{6}$
- 6)  $4 \frac{2}{6} \times 4 =$       A.  $23 \frac{2}{6}$       B.  $17 \frac{2}{6}$       C.  $13 \frac{2}{6}$       D.  $14 \frac{2}{6}$
- 7)  $9 \frac{1}{6} \times 7 =$       A.  $64 \frac{1}{6}$       B.  $77 \frac{1}{6}$       C.  $60 \frac{1}{6}$       D.  $56 \frac{1}{6}$
- 8)  $3 \times 9 \frac{3}{10} =$       A.  $32 \frac{3}{10}$       B.  $25 \frac{3}{10}$       C.  $27 \frac{9}{10}$       D.  $34 \frac{3}{10}$
- 9)  $2 \times 8 \frac{3}{5} =$       A.  $17 \frac{1}{5}$       B.  $22 \frac{3}{5}$       C.  $21 \frac{3}{5}$       D.  $20 \frac{1}{5}$
- 10)  $4 \times 8 \frac{1}{4} =$       A. 30      B. 33      C. 28      D. 38

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# Estimating Multiplication of Fractions

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Determine the answer using estimation.

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

- |                                |   |              |
|--------------------------------|---|--------------|
| 1) $3 \frac{1}{2} \times 7 =$  | A. $14 \frac{1}{2}$ B. $18 \frac{1}{2}$ C. $24 \frac{1}{2}$ D. $35 \frac{1}{2}$     | 1. <b>C</b>  |
| 2) $6 \frac{3}{8} \times 3 =$  | A. $19 \frac{1}{8}$ B. $24 \frac{1}{8}$ C. $16 \frac{3}{8}$ D. $16 \frac{1}{8}$     | 2. <b>A</b>  |
| 3) $2 \frac{3}{8} \times 6 =$  | A. $9 \frac{2}{8}$ B. $14 \frac{2}{8}$ C. $22 \frac{3}{8}$ D. $6 \frac{2}{8}$       | 3. <b>B</b>  |
| 4) $8 \times 3 \frac{1}{4} =$  | A. 26      B. 20      C. $35 \frac{1}{4}$ D. $20 \frac{1}{4}$                       | 4. <b>A</b>  |
| 5) $8 \times 2 \frac{3}{6} =$  | A. 20      B. 28      C. $26 \frac{3}{6}$ D. $27 \frac{3}{6}$                       | 5. <b>A</b>  |
| 6) $4 \frac{2}{6} \times 4 =$  | A. $23 \frac{2}{6}$ B. $17 \frac{2}{6}$ C. $13 \frac{2}{6}$ D. $14 \frac{2}{6}$     | 6. <b>B</b>  |
| 7) $9 \frac{1}{6} \times 7 =$  | A. $64 \frac{1}{6}$ B. $77 \frac{1}{6}$ C. $60 \frac{1}{6}$ D. $56 \frac{1}{6}$     | 7. <b>A</b>  |
| 8) $3 \times 9 \frac{3}{10} =$ | A. $32 \frac{3}{10}$ B. $25 \frac{3}{10}$ C. $27 \frac{9}{10}$ D. $34 \frac{3}{10}$ | 8. <b>A</b>  |
| 9) $2 \times 8 \frac{3}{5} =$  | A. $17 \frac{1}{5}$ B. $22 \frac{3}{5}$ C. $21 \frac{3}{5}$ D. $20 \frac{1}{5}$     | 9. <b>B</b>  |
| 10) $4 \times 8 \frac{1}{4} =$ | A. 30      B. 33      C. 28      D. 38  | 10. <b>A</b> |

**Answers**

1. **C**  
 2. **A**  
 3. **B**  
 4. **A**  
 5. **A**  
 6. **B**  
 7. **A**  
 8. **C**  
 9. **A**  
 10. **B**  
 11. **A**  
 12. **A**



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

## Answers

1)  $3 \times 2 \frac{3}{7} =$       A.  $11 \frac{3}{7}$       B.  $13 \frac{3}{7}$       C.  $7 \frac{2}{7}$       D.  $3 \frac{3}{7}$

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

2)  $6 \frac{4}{6} \times 4 =$       A.  $26 \frac{4}{6}$       B.  $21 \frac{4}{6}$       C.  $30 \frac{4}{6}$       D.  $22 \frac{4}{6}$

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

3)  $2 \times 3 \frac{3}{6} =$       A.  $2 \frac{3}{6}$       B. 11      C.  $3 \frac{3}{6}$       D. 7

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

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

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

5)  $9 \times 2 \frac{1}{6} =$       A.  $30 \frac{3}{6}$       B.  $19 \frac{3}{6}$       C.  $30 \frac{1}{6}$       D.  $36 \frac{3}{6}$

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

6)  $6 \times 2 \frac{6}{8} =$       A.  $10 \frac{6}{8}$       B.  $22 \frac{6}{8}$       C.  $24 \frac{4}{8}$       D.  $16 \frac{4}{8}$

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

7)  $3 \times 4 \frac{3}{4} =$       A.  $9 \frac{3}{4}$       B.  $9 \frac{1}{4}$       C.  $14 \frac{1}{4}$       D.  $19 \frac{1}{4}$

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

8)  $6 \frac{5}{6} \times 6 =$       A. 41      B.  $46 \frac{5}{6}$       C. 46      D. 33

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

9)  $4 \times 7 \frac{8}{9} =$       A.  $31 \frac{5}{9}$       B.  $26 \frac{5}{9}$       C.  $25 \frac{5}{9}$       D.  $36 \frac{5}{9}$

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

10)  $5 \frac{1}{6} \times 2 =$       A.  $10 \frac{2}{6}$       B.  $8 \frac{2}{6}$       C.  $6 \frac{1}{6}$       D.  $15 \frac{1}{6}$

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

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



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

**Answers**

1)  $3 \times 2 \frac{3}{7} =$       A.  $11 \frac{3}{7}$       B.  $13 \frac{3}{7}$       C.  $7 \frac{2}{7}$       D.  $3 \frac{3}{7}$

1. **C**

2)  $6 \frac{4}{6} \times 4 =$       A.  $26 \frac{4}{6}$       B.  $21 \frac{4}{6}$       C.  $30 \frac{4}{6}$       D.  $22 \frac{4}{6}$

2. **A**

3)  $2 \times 3 \frac{3}{6} =$       A.  $2 \frac{3}{6}$       B. 11      C.  $3 \frac{3}{6}$       D. 7

3. **D**

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

4. **D**

5)  $9 \times 2 \frac{1}{6} =$       A.  $30 \frac{3}{6}$       B.  $19 \frac{3}{6}$       C.  $30 \frac{1}{6}$       D.  $36 \frac{3}{6}$

5. **B**

6)  $6 \times 2 \frac{6}{8} =$       A.  $10 \frac{6}{8}$       B.  $22 \frac{6}{8}$       C.  $24 \frac{4}{8}$       D.  $16 \frac{4}{8}$

6. **D**

7)  $3 \times 4 \frac{3}{4} =$       A.  $9 \frac{3}{4}$       B.  $9 \frac{1}{4}$       C.  $14 \frac{1}{4}$       D.  $19 \frac{1}{4}$

7. **C**

8)  $6 \frac{5}{6} \times 6 =$       A. 41      B.  $46 \frac{5}{6}$       C. 46      D. 33

8. **A**

9)  $4 \times 7 \frac{8}{9} =$       A.  $31 \frac{5}{9}$       B.  $26 \frac{5}{9}$       C.  $25 \frac{5}{9}$       D.  $36 \frac{5}{9}$

9. **A**

10)  $5 \frac{1}{6} \times 2 =$       A.  $10 \frac{2}{6}$       B.  $8 \frac{2}{6}$       C.  $6 \frac{1}{6}$       D.  $15 \frac{1}{6}$

10. **A**

11. **D**

12. **C**



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## Answers

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

2)  $6 \times 7 \frac{5}{6} =$       A.  $51 \frac{5}{6}$       B. 47      C.  $52 \frac{5}{6}$       D.  $40 \frac{5}{6}$

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

3)  $6 \frac{1}{7} \times 8 =$       A.  $40 \frac{1}{7}$       B.  $49 \frac{1}{7}$       C.  $45 \frac{1}{7}$       D.  $46 \frac{1}{7}$

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

4)  $4 \times 4 \frac{7}{10} =$       A.  $24 \frac{8}{10}$       B.  $18 \frac{8}{10}$       C.  $22 \frac{7}{10}$       D.  $12 \frac{8}{10}$

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

5)  $6 \frac{3}{7} \times 8 =$       A.  $58 \frac{3}{7}$       B.  $45 \frac{3}{7}$       C.  $46 \frac{3}{7}$       D.  $51 \frac{3}{7}$

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

6)  $2 \times 4 \frac{1}{3} =$       A.  $6 \frac{2}{3}$       B.  $4 \frac{2}{3}$       C.  $12 \frac{2}{3}$       D.  $8 \frac{2}{3}$

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

7)  $3 \frac{3}{6} \times 2 =$       A.  $11 \frac{3}{6}$       B.  $2 \frac{3}{6}$       C. 7      D. 2

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

8)  $4 \frac{6}{10} \times 9 =$       A.  $33 \frac{4}{10}$       B.  $41 \frac{4}{10}$       C.  $47 \frac{4}{10}$       D.  $48 \frac{6}{10}$

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

9)  $3 \frac{1}{9} \times 9 =$       A.  $39 \frac{1}{9}$       B.  $40 \frac{1}{9}$       C. 28      D. 24

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

10)  $6 \times 7 \frac{3}{4} =$       A.  $38 \frac{2}{4}$       B.  $46 \frac{2}{4}$       C.  $36 \frac{2}{4}$       D.  $50 \frac{2}{4}$

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

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**Answers**

1)  $3 \frac{1}{4} \times 3 =$       A.  $16 \frac{1}{4}$       B.  $7 \frac{3}{4}$       C.  $9 \frac{3}{4}$       D.  $15 \frac{1}{4}$

1. **C**

2)  $6 \times 7 \frac{5}{6} =$       A.  $51 \frac{5}{6}$       B. 47      C.  $52 \frac{5}{6}$       D.  $40 \frac{5}{6}$

2. **B**

3)  $6 \frac{1}{7} \times 8 =$       A.  $40 \frac{1}{7}$       B.  $49 \frac{1}{7}$       C.  $45 \frac{1}{7}$       D.  $46 \frac{1}{7}$

3. **B**

4)  $4 \times 4 \frac{7}{10} =$       A.  $24 \frac{8}{10}$       B.  $18 \frac{8}{10}$       C.  $22 \frac{7}{10}$       D.  $12 \frac{8}{10}$

4. **B**

5)  $6 \frac{3}{7} \times 8 =$       A.  $58 \frac{3}{7}$       B.  $45 \frac{3}{7}$       C.  $46 \frac{3}{7}$       D.  $51 \frac{3}{7}$

5. **D**

6)  $2 \times 4 \frac{1}{3} =$       A.  $6 \frac{2}{3}$       B.  $4 \frac{2}{3}$       C.  $12 \frac{2}{3}$       D.  $8 \frac{2}{3}$

6. **D**

7)  $3 \frac{3}{6} \times 2 =$       A.  $11 \frac{3}{6}$       B.  $2 \frac{3}{6}$       C. 7      D. 2

7. **C**

8)  $4 \frac{6}{10} \times 9 =$       A.  $33 \frac{4}{10}$       B.  $41 \frac{4}{10}$       C.  $47 \frac{4}{10}$       D.  $48 \frac{6}{10}$

8. **B**

9)  $3 \frac{1}{9} \times 9 =$       A.  $39 \frac{1}{9}$       B.  $40 \frac{1}{9}$       C. 28      D. 24

9. **C**

10)  $6 \times 7 \frac{3}{4} =$       A.  $38 \frac{2}{4}$       B.  $46 \frac{2}{4}$       C.  $36 \frac{2}{4}$       D.  $50 \frac{2}{4}$

10. **B**

11. **A**

12. **A**



# 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).

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. \_\_\_\_\_

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. \_\_\_\_\_

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. \_\_\_\_\_

4)  $3 \times 4 \frac{2}{6} =$       A. 8      B. 13      C. 18      D. 10

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

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. \_\_\_\_\_

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. \_\_\_\_\_

7)  $9 \times 8 \frac{4}{9} =$       A. 76      B.  $85 \frac{4}{9}$       C.  $69 \frac{4}{9}$       D. 90

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

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. \_\_\_\_\_

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. \_\_\_\_\_

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. \_\_\_\_\_

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

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

**Answers**

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. **D**

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. **A**

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**

4)  $3 \times 4 \frac{2}{6} =$       A. 8      B. 13      C. 18      D. 10

4. **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. **A**

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. **A**

7)  $9 \times 8 \frac{4}{9} =$       A. 76      B.  $85 \frac{4}{9}$       C.  $69 \frac{4}{9}$       D. 90

7. **A**

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. **D**

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. **A**

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. **A**

11. **D**

12. **B**

**Answers**

1. **D**

2. **A**

3. **B**

4. **B**

5. **A**

6. **A**

7. **A**

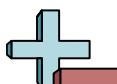
8. **D**

9. **A**

10. **A**

11. **D**

12. **B**



# Estimating Multiplication of Fractions

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

Determine the answer using estimation.

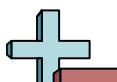
When multiplying a fraction and a whole number you can estimate the answer by remembering that the fraction is just part of a number.

$5 \times 6 \frac{2}{3} =$   
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)  $2 \times 8 \frac{1}{5} =$       A.  $16 \frac{2}{5}$       B.  $12 \frac{1}{5}$       C.  $20 \frac{1}{5}$       D.  $20 \frac{2}{5}$
- 2)  $9 \times 6 \frac{3}{9} =$       A. 57      B. 51      C. 52      D.  $66 \frac{3}{9}$
- 3)  $3 \times 8 \frac{4}{5} =$       A.  $29 \frac{2}{5}$       B.  $21 \frac{2}{5}$       C.  $30 \frac{4}{5}$       D.  $26 \frac{2}{5}$
- 4)  $9 \frac{5}{7} \times 7 =$       A.  $60 \frac{5}{7}$       B.  $73 \frac{5}{7}$       C. 77      D. 68
- 5)  $3 \frac{2}{3} \times 2 =$       A.  $11 \frac{2}{3}$       B.  $4 \frac{1}{3}$       C.  $7 \frac{1}{3}$       D.  $11 \frac{1}{3}$
- 6)  $9 \frac{2}{9} \times 8 =$       A.  $69 \frac{7}{9}$       B.  $69 \frac{2}{9}$       C.  $68 \frac{2}{9}$       D.  $73 \frac{7}{9}$
- 7)  $9 \times 3 \frac{4}{7} =$       A.  $32 \frac{1}{7}$       B.  $23 \frac{4}{7}$       C.  $40 \frac{4}{7}$       D.  $25 \frac{1}{7}$
- 8)  $5 \frac{4}{9} \times 4 =$       A.  $26 \frac{4}{9}$       B.  $21 \frac{7}{9}$       C.  $17 \frac{7}{9}$       D.  $28 \frac{4}{9}$
- 9)  $9 \frac{7}{8} \times 7 =$       A.  $77 \frac{1}{8}$       B.  $74 \frac{1}{8}$       C.  $69 \frac{1}{8}$       D.  $74 \frac{7}{8}$
- 10)  $5 \times 6 \frac{6}{9} =$       A.  $33 \frac{3}{9}$       B.  $40 \frac{3}{9}$       C.  $38 \frac{3}{9}$       D.  $26 \frac{6}{9}$

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)  $2 \times 8 \frac{1}{5} =$       A.  $16 \frac{2}{5}$       B.  $12 \frac{1}{5}$       C.  $20 \frac{1}{5}$       D.  $20 \frac{2}{5}$

1. **A**

2)  $9 \times 6 \frac{3}{9} =$       A. 57      B. 51      C. 52      D.  $66 \frac{3}{9}$

2. **A**

3)  $3 \times 8 \frac{4}{5} =$       A.  $29 \frac{2}{5}$       B.  $21 \frac{2}{5}$       C.  $30 \frac{4}{5}$       D.  $26 \frac{2}{5}$

3. **D**

4)  $9 \frac{5}{7} \times 7 =$       A.  $60 \frac{5}{7}$       B.  $73 \frac{5}{7}$       C. 77      D. 68

4. **D**

5)  $3 \frac{2}{3} \times 2 =$       A.  $11 \frac{2}{3}$       B.  $4 \frac{1}{3}$       C.  $7 \frac{1}{3}$       D.  $11 \frac{1}{3}$

5. **C**

6)  $9 \frac{2}{9} \times 8 =$       A.  $69 \frac{7}{9}$       B.  $69 \frac{2}{9}$       C.  $68 \frac{2}{9}$       D.  $73 \frac{7}{9}$

6. **D**

7)  $9 \times 3 \frac{4}{7} =$       A.  $32 \frac{1}{7}$       B.  $23 \frac{4}{7}$       C.  $40 \frac{4}{7}$       D.  $25 \frac{1}{7}$

7. **A**

8)  $5 \frac{4}{9} \times 4 =$       A.  $26 \frac{4}{9}$       B.  $21 \frac{7}{9}$       C.  $17 \frac{7}{9}$       D.  $28 \frac{4}{9}$

8. **B**

9)  $9 \frac{7}{8} \times 7 =$       A.  $77 \frac{1}{8}$       B.  $74 \frac{1}{8}$       C.  $69 \frac{1}{8}$       D.  $74 \frac{7}{8}$

9. **C**

10)  $5 \times 6 \frac{6}{9} =$       A.  $33 \frac{3}{9}$       B.  $40 \frac{3}{9}$       C.  $38 \frac{3}{9}$       D.  $26 \frac{6}{9}$

10. **A**

11. **A**

12. **A**

**Answers**

1. **A**

2. **A**

3. **D**

4. **D**

5. **C**

6. **D**

7. **A**

8. **B**

9. **C**

10. **A**

11. **A**

12. **A**



# 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)  $8 \times 6 \frac{2}{3} =$       A.  $53 \frac{1}{3}$       B.  $46 \frac{2}{3}$       C.  $44 \frac{2}{3}$       D.  $64 \frac{1}{3}$

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

2)  $2 \frac{5}{9} \times 6 =$       A.  $15 \frac{3}{9}$       B.  $22 \frac{5}{9}$       C.  $24 \frac{3}{9}$       D.  $20 \frac{5}{9}$

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

3)  $7 \frac{5}{6} \times 5 =$       A.  $39 \frac{1}{6}$       B.  $32 \frac{1}{6}$       C.  $43 \frac{1}{6}$       D.  $44 \frac{1}{6}$

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

4)  $5 \times 4 \frac{4}{7} =$       A.  $17 \frac{4}{7}$       B.  $15 \frac{6}{7}$       C.  $22 \frac{6}{7}$       D.  $28 \frac{4}{7}$

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

5)  $3 \times 6 \frac{2}{3} =$       A. 20      B.  $25 \frac{2}{3}$       C.  $24 \frac{2}{3}$       D. 24

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

6)  $4 \times 7 \frac{4}{5} =$       A.  $26 \frac{4}{5}$       B.  $34 \frac{4}{5}$       C.  $31 \frac{1}{5}$       D.  $34 \frac{1}{5}$

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

7)  $6 \frac{3}{7} \times 2 =$       A.  $12 \frac{6}{7}$       B.  $16 \frac{6}{7}$       C.  $17 \frac{3}{7}$       D.  $8 \frac{3}{7}$

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

8)  $6 \times 2 \frac{2}{3} =$       A. 8      B. 22      C.  $20 \frac{2}{3}$       D. 16

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

9)  $7 \frac{5}{6} \times 7 =$       A.  $42 \frac{5}{6}$       B.  $63 \frac{5}{6}$       C.  $59 \frac{5}{6}$       D.  $54 \frac{5}{6}$

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

10)  $8 \times 3 \frac{3}{9} =$       A.  $16 \frac{6}{9}$       B.  $34 \frac{3}{9}$       C.  $22 \frac{3}{9}$       D.  $26 \frac{6}{9}$

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).

**Answers**

1)  $8 \times 6 \frac{2}{3} =$       A.  $53 \frac{1}{3}$       B.  $46 \frac{2}{3}$       C.  $44 \frac{2}{3}$       D.  $64 \frac{1}{3}$

1. **A**

2)  $2 \frac{5}{9} \times 6 =$       A.  $15 \frac{3}{9}$       B.  $22 \frac{5}{9}$       C.  $24 \frac{3}{9}$       D.  $20 \frac{5}{9}$

2. **A**

3)  $7 \frac{5}{6} \times 5 =$       A.  $39 \frac{1}{6}$       B.  $32 \frac{1}{6}$       C.  $43 \frac{1}{6}$       D.  $44 \frac{1}{6}$

3. **A**

4)  $5 \times 4 \frac{4}{7} =$       A.  $17 \frac{4}{7}$       B.  $15 \frac{6}{7}$       C.  $22 \frac{6}{7}$       D.  $28 \frac{4}{7}$

4. **C**

5)  $3 \times 6 \frac{2}{3} =$       A. 20      B.  $25 \frac{2}{3}$       C.  $24 \frac{2}{3}$       D. 24

5. **A**

6)  $4 \times 7 \frac{4}{5} =$       A.  $26 \frac{4}{5}$       B.  $34 \frac{4}{5}$       C.  $31 \frac{1}{5}$       D.  $34 \frac{1}{5}$

6. **C**

7)  $6 \frac{3}{7} \times 2 =$       A.  $12 \frac{6}{7}$       B.  $16 \frac{6}{7}$       C.  $17 \frac{3}{7}$       D.  $8 \frac{3}{7}$

7. **A**

8)  $6 \times 2 \frac{2}{3} =$       A. 8      B. 22      C.  $20 \frac{2}{3}$       D. 16

8. **D**

9)  $7 \frac{5}{6} \times 7 =$       A.  $42 \frac{5}{6}$       B.  $63 \frac{5}{6}$       C.  $59 \frac{5}{6}$       D.  $54 \frac{5}{6}$

9. **B**

10)  $8 \times 3 \frac{3}{9} =$       A.  $16 \frac{6}{9}$       B.  $34 \frac{3}{9}$       C.  $22 \frac{3}{9}$       D.  $26 \frac{6}{9}$

10. **D**



# Estimating Multiplication of Fractions

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

Determine the answer using estimation.

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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)  $5 \times 8 \frac{2}{3} =$       A.  $49 \frac{2}{3}$       B.  $37 \frac{1}{3}$       C.  $47 \frac{1}{3}$       D.  $43 \frac{1}{3}$

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

2)  $5 \frac{2}{6} \times 4 =$       A.  $27 \frac{2}{6}$       B.  $21 \frac{2}{6}$       C.  $16 \frac{2}{6}$       D.  $26 \frac{2}{6}$

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

3)  $2 \times 3 \frac{6}{8} =$       A.  $10 \frac{6}{8}$       B.  $7 \frac{4}{8}$       C.  $2 \frac{6}{8}$       D.  $12 \frac{6}{8}$

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

4)  $7 \frac{3}{5} \times 4 =$       A.  $36 \frac{3}{5}$       B.  $34 \frac{3}{5}$       C.  $30 \frac{2}{5}$       D.  $25 \frac{3}{5}$

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

5)  $9 \times 9 \frac{1}{4} =$       A.  $93 \frac{1}{4}$       B.  $83 \frac{1}{4}$       C.  $99 \frac{1}{4}$       D.  $79 \frac{1}{4}$

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

6)  $5 \frac{1}{9} \times 9 =$       A.  $57 \frac{1}{9}$       B. 42      C. 46      D. 63

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

7)  $3 \frac{5}{9} \times 6 =$       A.  $16 \frac{5}{9}$       B.  $15 \frac{3}{9}$       C.  $21 \frac{3}{9}$       D.  $15 \frac{5}{9}$

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

8)  $5 \frac{1}{10} \times 2 =$       A.  $15 \frac{2}{10}$       B.  $10 \frac{2}{10}$       C.  $14 \frac{2}{10}$       D.  $16 \frac{1}{10}$

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

9)  $9 \times 8 \frac{1}{3} =$       A. 84      B.  $70 \frac{1}{3}$       C. 63      D. 75

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

10)  $5 \times 4 \frac{7}{8} =$       A.  $17 \frac{7}{8}$       B.  $28 \frac{7}{8}$       C.  $17 \frac{3}{8}$       D.  $24 \frac{3}{8}$

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) $5 \times 8 \frac{2}{3} =$  | A. $49 \frac{2}{3}$ B. $37 \frac{1}{3}$ C. $47 \frac{1}{3}$ D. $43 \frac{1}{3}$     | 1. <b>D</b>  |
| 2) $5 \frac{2}{6} \times 4 =$  | A. $27 \frac{2}{6}$ B. $21 \frac{2}{6}$ C. $16 \frac{2}{6}$ D. $26 \frac{2}{6}$     | 2. <b>B</b>  |
| 3) $2 \times 3 \frac{6}{8} =$  | A. $10 \frac{6}{8}$ B. $7 \frac{4}{8}$ C. $2 \frac{6}{8}$ D. $12 \frac{6}{8}$       | 3. <b>B</b>  |
| 4) $7 \frac{3}{5} \times 4 =$  | A. $36 \frac{3}{5}$ B. $34 \frac{3}{5}$ C. $30 \frac{2}{5}$ D. $25 \frac{3}{5}$     | 4. <b>C</b>  |
| 5) $9 \times 9 \frac{1}{4} =$  | A. $93 \frac{1}{4}$ B. $83 \frac{1}{4}$ C. $99 \frac{1}{4}$ D. $79 \frac{1}{4}$     | 5. <b>D</b>  |
| 6) $5 \frac{1}{9} \times 9 =$  | A. $57 \frac{1}{9}$ B. 42    C. 46    D. 63   | 6. <b>D</b>  |
| 7) $3 \frac{5}{9} \times 6 =$  | A. $16 \frac{5}{9}$ B. $15 \frac{3}{9}$ C. $21 \frac{3}{9}$ D. $15 \frac{5}{9}$     | 7. <b>C</b>  |
| 8) $5 \frac{1}{10} \times 2 =$ | A. $15 \frac{2}{10}$ B. $10 \frac{2}{10}$ C. $14 \frac{2}{10}$ D. $16 \frac{1}{10}$ | 8. <b>A</b>  |
| 9) $9 \times 8 \frac{1}{3} =$  | A. 84    B. $70 \frac{1}{3}$ C. 63    D. 75   | 9. <b>B</b>  |
| 10) $5 \times 4 \frac{7}{8} =$ | A. $17 \frac{7}{8}$ B. $28 \frac{7}{8}$ C. $17 \frac{3}{8}$ D. $24 \frac{3}{8}$     | 10. <b>C</b> |

**Answers**

1. **D**  
 2. **B**  
 3. **B**  
 4. **C**  
 5. **B**  
 6. **C**  
 7. **C**  
 8. **B**  
 9. **D**  
 10. **D**  
 11. **B**  
 12. **C**



# 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)  $3 \frac{2}{4} \times 7 =$       A.  $14 \frac{2}{4}$       B.  $17 \frac{2}{4}$       C.  $24 \frac{2}{4}$       D.  $32 \frac{2}{4}$

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

2)  $6 \times 7 \frac{2}{4} =$       A. 45      B. 38      C.  $40 \frac{2}{4}$       D. 50

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

3)  $3 \frac{1}{2} \times 4 =$       A. 10      B. 14      C.  $10 \frac{1}{2}$       D. 9

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

4)  $4 \frac{2}{7} \times 9 =$       A.  $38 \frac{4}{7}$       B.  $33 \frac{2}{7}$       C.  $27 \frac{4}{7}$       D.  $34 \frac{2}{7}$

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

5)  $9 \frac{1}{2} \times 6 =$       A.  $51 \frac{1}{2}$       B. 57      C.  $64 \frac{1}{2}$       D.  $63 \frac{1}{2}$

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

6)  $6 \frac{2}{6} \times 3 =$       A. 19      B. 24      C.  $15 \frac{2}{6}$       D. 23

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

7)  $8 \frac{1}{5} \times 5 =$       A. 41      B. 50      C.  $36 \frac{1}{5}$       D. 36

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

8)  $2 \frac{1}{2} \times 7 =$       A.  $17 \frac{1}{2}$       B.  $25 \frac{1}{2}$       C.  $23 \frac{1}{2}$       D.  $10 \frac{1}{2}$

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

9)  $5 \times 3 \frac{3}{4} =$       A.  $12 \frac{3}{4}$       B.  $18 \frac{3}{4}$       C.  $11 \frac{3}{4}$       D.  $22 \frac{3}{4}$

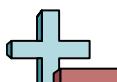
9. \_\_\_\_\_

10)  $2 \times 3 \frac{6}{8} =$       A.  $11 \frac{6}{8}$       B.  $7 \frac{4}{8}$       C.  $10 \frac{6}{8}$       D.  $11 \frac{4}{8}$

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)  $3 \frac{2}{4} \times 7 =$       A.  $14 \frac{2}{4}$       B.  $17 \frac{2}{4}$       C.  $24 \frac{2}{4}$       D.  $32 \frac{2}{4}$

2)  $6 \times 7 \frac{2}{4} =$       A. 45      B. 38      C.  $40 \frac{2}{4}$       D. 50

3)  $3 \frac{1}{2} \times 4 =$       A. 10      B. 14      C.  $10 \frac{1}{2}$       D. 9

4)  $4 \frac{2}{7} \times 9 =$       A.  $38 \frac{4}{7}$       B.  $33 \frac{2}{7}$       C.  $27 \frac{4}{7}$       D.  $34 \frac{2}{7}$

5)  $9 \frac{1}{2} \times 6 =$       A.  $51 \frac{1}{2}$       B. 57      C.  $64 \frac{1}{2}$       D.  $63 \frac{1}{2}$

6)  $6 \frac{2}{6} \times 3 =$       A. 19      B. 24      C.  $15 \frac{2}{6}$       D. 23

7)  $8 \frac{1}{5} \times 5 =$       A. 41      B. 50      C.  $36 \frac{1}{5}$       D. 36

8)  $2 \frac{1}{2} \times 7 =$       A.  $17 \frac{1}{2}$       B.  $25 \frac{1}{2}$       C.  $23 \frac{1}{2}$       D.  $10 \frac{1}{2}$

9)  $5 \times 3 \frac{3}{4} =$       A.  $12 \frac{3}{4}$       B.  $18 \frac{3}{4}$       C.  $11 \frac{3}{4}$       D.  $22 \frac{3}{4}$

10)  $2 \times 3 \frac{6}{8} =$       A.  $11 \frac{6}{8}$       B.  $7 \frac{4}{8}$       C.  $10 \frac{6}{8}$       D.  $11 \frac{4}{8}$

**Answers**

1. **C**

2. **A**

3. **B**

4. **A**

5. **B**

6. **A**

7. **A**

8. **A**

9. **B**

10. **B**

11. **A**

12. **B**



## Estimating Multiplication of Fractions

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

Determine the answer using estimation.

**Answers**

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)  $5 \frac{3}{4} \times 6 =$       A.  $27 \frac{3}{4}$       B.  $40 \frac{3}{4}$       C.  $38 \frac{3}{4}$       D.  $34 \frac{2}{4}$

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

2)  $9 \frac{1}{2} \times 7 =$       A.  $59 \frac{1}{2}$       B.  $73 \frac{1}{2}$       C.  $60 \frac{1}{2}$       D.  $66 \frac{1}{2}$

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

3)  $4 \times 9 \frac{5}{7} =$       A.  $38 \frac{6}{7}$       B.  $34 \frac{5}{7}$       C.  $42 \frac{5}{7}$       D.  $44 \frac{6}{7}$

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

4)  $8 \times 7 \frac{3}{6} =$       A.  $68 \frac{3}{6}$       B. 72      C. 60      D.  $67 \frac{3}{6}$

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

5)  $7 \frac{3}{5} \times 4 =$       A.  $34 \frac{2}{5}$       B.  $36 \frac{3}{5}$       C.  $34 \frac{3}{5}$       D.  $30 \frac{2}{5}$

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

6)  $7 \frac{1}{3} \times 6 =$       A. 44      B.  $40 \frac{1}{3}$       C. 36      D. 54

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

7)  $5 \frac{1}{8} \times 5 =$       A.  $25 \frac{5}{8}$       B.  $33 \frac{1}{8}$       C.  $21 \frac{1}{8}$       D.  $22 \frac{1}{8}$

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

8)  $9 \times 9 \frac{5}{9} =$       A.  $77 \frac{5}{9}$       B. 86      C. 93      D. 78

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

9)  $4 \frac{5}{10} \times 8 =$       A. 36      B.  $30 \frac{5}{10}$       C. 43      D. 24

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

10)  $6 \times 6 \frac{8}{9} =$       A.  $41 \frac{3}{9}$       B.  $33 \frac{3}{9}$       C.  $34 \frac{3}{9}$       D.  $32 \frac{8}{9}$

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).

**Answers**

1)  $5 \frac{3}{4} \times 6 =$       A.  $27 \frac{3}{4}$       B.  $40 \frac{3}{4}$       C.  $38 \frac{3}{4}$       D.  $34 \frac{2}{4}$

1. **D**

2)  $9 \frac{1}{2} \times 7 =$       A.  $59 \frac{1}{2}$       B.  $73 \frac{1}{2}$       C.  $60 \frac{1}{2}$       D.  $66 \frac{1}{2}$

2. **D**

3)  $4 \times 9 \frac{5}{7} =$       A.  $38 \frac{6}{7}$       B.  $34 \frac{5}{7}$       C.  $42 \frac{5}{7}$       D.  $44 \frac{6}{7}$

3. **A**

4)  $8 \times 7 \frac{3}{6} =$       A.  $68 \frac{3}{6}$       B. 72      C. 60      D.  $67 \frac{3}{6}$

4. **C**

5)  $7 \frac{3}{5} \times 4 =$       A.  $34 \frac{2}{5}$       B.  $36 \frac{3}{5}$       C.  $34 \frac{3}{5}$       D.  $30 \frac{2}{5}$

5. **D**

6)  $7 \frac{1}{3} \times 6 =$       A. 44      B.  $40 \frac{1}{3}$       C. 36      D. 54

6. **A**

7)  $5 \frac{1}{8} \times 5 =$       A.  $25 \frac{5}{8}$       B.  $33 \frac{1}{8}$       C.  $21 \frac{1}{8}$       D.  $22 \frac{1}{8}$

7. **A**

8)  $9 \times 9 \frac{5}{9} =$       A.  $77 \frac{5}{9}$       B. 86      C. 93      D. 78

8. **B**

9)  $4 \frac{5}{10} \times 8 =$       A. 36      B.  $30 \frac{5}{10}$       C. 43      D. 24

9. **A**

10)  $6 \times 6 \frac{8}{9} =$       A.  $41 \frac{3}{9}$       B.  $33 \frac{3}{9}$       C.  $34 \frac{3}{9}$       D.  $32 \frac{8}{9}$

10. **A**

11. **A**

12. **D**