



# 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)  $9 \times 4 \frac{4}{5} =$       A.  $32 \frac{1}{5}$       B.  $43 \frac{1}{5}$       C.  $32 \frac{4}{5}$       D.  $49 \frac{4}{5}$

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

2)  $2 \times 2 \frac{4}{10} =$       A.  $0 \frac{4}{10}$       B.  $4 \frac{8}{10}$       C.  $2 \frac{4}{10}$       D.  $9 \frac{4}{10}$

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

3)  $7 \frac{4}{6} \times 2 =$       A.  $15 \frac{2}{6}$       B.  $10 \frac{2}{6}$       C.  $18 \frac{2}{6}$       D.  $20 \frac{4}{6}$

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

4)  $8 \frac{1}{2} \times 9 =$       A.  $68 \frac{1}{2}$       B.  $84 \frac{1}{2}$       C.  $76 \frac{1}{2}$       D.  $63 \frac{1}{2}$

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

5)  $2 \frac{3}{5} \times 2 =$       A.  $2 \frac{1}{5}$       B.  $8 \frac{1}{5}$       C.  $5 \frac{1}{5}$       D.  $0 \frac{1}{5}$

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

6)  $5 \frac{4}{6} \times 3 =$       A. 22      B. 17      C. 13      D. 21

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

7)  $3 \frac{4}{9} \times 2 =$       A.  $2 \frac{4}{9}$       B.  $6 \frac{8}{9}$       C.  $2 \frac{8}{9}$       D.  $10 \frac{8}{9}$

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

8)  $8 \times 8 \frac{6}{8} =$       A. 60      B.  $61 \frac{6}{8}$       C. 70      D. 62

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

9)  $2 \times 9 \frac{7}{10} =$       A.  $16 \frac{4}{10}$       B.  $14 \frac{7}{10}$       C.  $19 \frac{4}{10}$       D.  $24 \frac{4}{10}$

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

10)  $6 \frac{1}{8} \times 5 =$       A.  $40 \frac{5}{8}$       B.  $38 \frac{5}{8}$       C.  $30 \frac{5}{8}$       D.  $37 \frac{5}{8}$

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.

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

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

1)  $9 \times 4 \frac{4}{5} =$       A.  $32 \frac{1}{5}$       B.  $43 \frac{1}{5}$       C.  $32 \frac{4}{5}$       D.  $49 \frac{4}{5}$

2)  $2 \times 2 \frac{4}{10} =$       A.  $0 \frac{4}{10}$       B.  $4 \frac{8}{10}$       C.  $2 \frac{4}{10}$       D.  $9 \frac{4}{10}$

3)  $7 \frac{4}{6} \times 2 =$       A.  $15 \frac{2}{6}$       B.  $10 \frac{2}{6}$       C.  $18 \frac{2}{6}$       D.  $20 \frac{4}{6}$

4)  $8 \frac{1}{2} \times 9 =$       A.  $68 \frac{1}{2}$       B.  $84 \frac{1}{2}$       C.  $76 \frac{1}{2}$       D.  $63 \frac{1}{2}$

5)  $2 \frac{3}{5} \times 2 =$       A.  $2 \frac{1}{5}$       B.  $8 \frac{1}{5}$       C.  $5 \frac{1}{5}$       D.  $0 \frac{1}{5}$

6)  $5 \frac{4}{6} \times 3 =$       A. 22      B. 17      C. 13      D. 21

7)  $3 \frac{4}{9} \times 2 =$       A.  $2 \frac{4}{9}$       B.  $6 \frac{8}{9}$       C.  $2 \frac{8}{9}$       D.  $10 \frac{8}{9}$

8)  $8 \times 8 \frac{6}{8} =$       A. 60      B.  $61 \frac{6}{8}$       C. 70      D. 62

9)  $2 \times 9 \frac{7}{10} =$       A.  $16 \frac{4}{10}$       B.  $14 \frac{7}{10}$       C.  $19 \frac{4}{10}$       D.  $24 \frac{4}{10}$

10)  $6 \frac{1}{8} \times 5 =$       A.  $40 \frac{5}{8}$       B.  $38 \frac{5}{8}$       C.  $30 \frac{5}{8}$       D.  $37 \frac{5}{8}$

**Answers**

1. **B**

2. **B**

3. **A**

4. **C**

5. **C**

6. **B**

7. **B**

8. **C**

9. **C**

10. **C**

11. **D**

12. **C**