



**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)  $8 \frac{7}{10} \times 6 =$       A.  $58 \frac{2}{10}$       B.  $44 \frac{7}{10}$       C.  $42 \frac{2}{10}$       D.  $52 \frac{2}{10}$

2)  $2 \times 4 \frac{3}{7} =$       A.  $6 \frac{6}{7}$       B.  $8 \frac{6}{7}$       C.  $13 \frac{3}{7}$       D.  $5 \frac{6}{7}$

3)  $2 \times 9 \frac{6}{7} =$       A.  $16 \frac{6}{7}$       B.  $19 \frac{5}{7}$       C.  $24 \frac{5}{7}$       D.  $23 \frac{6}{7}$

4)  $2 \frac{4}{8} \times 8 =$       A.  $12 \frac{4}{8}$       B. 28      C. 20      D. 32

5)  $7 \frac{3}{5} \times 8 =$       A.  $54 \frac{3}{5}$       B.  $60 \frac{4}{5}$       C.  $66 \frac{4}{5}$       D.  $53 \frac{3}{5}$

6)  $3 \frac{5}{7} \times 6 =$       A.  $22 \frac{2}{7}$       B.  $16 \frac{2}{7}$       C.  $15 \frac{2}{7}$       D.  $27 \frac{5}{7}$

7)  $5 \frac{1}{2} \times 7 =$       A.  $44 \frac{1}{2}$       B.  $28 \frac{1}{2}$       C.  $46 \frac{1}{2}$       D.  $38 \frac{1}{2}$

8)  $7 \times 9 \frac{4}{9} =$       A.  $74 \frac{1}{9}$       B.  $61 \frac{4}{9}$       C.  $66 \frac{1}{9}$       D.  $59 \frac{4}{9}$

9)  $2 \times 4 \frac{3}{6} =$       A.  $12 \frac{3}{6}$       B. 4      C. 13      D. 9

10)  $2 \frac{3}{9} \times 9 =$       A.  $30 \frac{3}{9}$       B. 36      C.  $16 \frac{3}{9}$       D. 21

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_



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10)  $2 \frac{3}{9} \times 9 =$     A.  $30 \frac{3}{9}$     B. 36    C.  $16 \frac{3}{9}$     D. 21

1.   **D**  

2.   **B**  

3.   **B**  

4.   **C**  

5.   **B**  

6.   **A**  

7.   **D**  

8.   **C**  

9.   **D**  

10.   **D**  

11.   **B**  

12.   **B**