



**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)  $7 \times 6 \frac{3}{5} =$     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

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



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**Answers**

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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.  $93 \frac{1}{2}$

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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

1.   **D**  

2.   **A**  

3.   **C**  

4.   **D**  

5.   **A**  

6.   **C**  

7.   **A**  

8.   **C**  

9.   **D**  

10.   **C**  

11.   **A**  

12.   **A**