



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

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

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

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

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

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

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

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

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

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

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



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- 8)  $4 \frac{6}{10} \times 9 =$     A.  $33 \frac{4}{10}$     B.  $41 \frac{4}{10}$     C.  $47 \frac{4}{10}$     D.  $48 \frac{6}{10}$
- 9)  $3 \frac{1}{9} \times 9 =$     A.  $39 \frac{1}{9}$     B.  $40 \frac{1}{9}$     C. 28    D. 24
- 10)  $6 \times 7 \frac{3}{4} =$     A.  $38 \frac{2}{4}$     B.  $46 \frac{2}{4}$     C.  $36 \frac{2}{4}$     D.  $50 \frac{2}{4}$

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