



**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)  $6 \frac{8}{9} \times 7 =$       A.  $56 \frac{2}{9}$       B.  $51 \frac{8}{9}$       C.  $52 \frac{8}{9}$       D.  $48 \frac{2}{9}$

2)  $2 \frac{4}{6} \times 2 =$       A.  $0 \frac{2}{6}$       B.  $8 \frac{2}{6}$       C.  $1 \frac{2}{6}$       D.  $5 \frac{2}{6}$

3)  $7 \times 2 \frac{2}{4} =$       A.  $17 \frac{2}{4}$       B.  $23 \frac{2}{4}$       C.  $10 \frac{2}{4}$       D.  $24 \frac{2}{4}$

4)  $8 \frac{1}{8} \times 8 =$       A. 65      B. 62      C. 61      D.  $76 \frac{1}{8}$

5)  $2 \frac{1}{4} \times 9 =$       A.  $15 \frac{1}{4}$       B.  $16 \frac{1}{4}$       C.  $20 \frac{1}{4}$       D.  $14 \frac{1}{4}$

6)  $3 \times 7 \frac{1}{6} =$       A.  $19 \frac{1}{6}$       B.  $28 \frac{3}{6}$       C.  $21 \frac{3}{6}$       D.  $17 \frac{1}{6}$

7)  $3 \times 6 \frac{6}{9} =$       A. 20      B.  $15 \frac{6}{9}$       C.  $23 \frac{6}{9}$       D.  $14 \frac{6}{9}$

8)  $6 \times 6 \frac{2}{3} =$       A. 48      B.  $46 \frac{2}{3}$       C. 40      D. 46

9)  $4 \frac{1}{4} \times 3 =$       A.  $18 \frac{3}{4}$       B.  $9 \frac{3}{4}$       C.  $10 \frac{1}{4}$       D.  $12 \frac{3}{4}$

10)  $6 \frac{1}{2} \times 6 =$       A. 48      B.  $33 \frac{1}{2}$       C. 39      D. 46

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



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10)  $6 \frac{1}{2} \times 6 =$     A. 48    B.  $33 \frac{1}{2}$     C. 39    D. 46

1.   **D**  

2.   **D**  

3.   **A**  

4.   **A**  

5.   **C**  

6.   **C**  

7.   **A**  

8.   **C**  

9.   **D**  

10.   **C**  

11.   **A**  

12.   **D**