



**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)  $6 \frac{2}{10} \times 5 =$     A. 25            B. 31            C.  $28 \frac{2}{10}$        D. 27
  
- 2)  $9 \times 2 \frac{1}{9} =$         A. 14            B. 19            C. 30            D. 31
  
- 3)  $3 \times 3 \frac{3}{4} =$         A.  $5 \frac{1}{4}$             B.  $11 \frac{1}{4}$             C.  $16 \frac{3}{4}$             D.  $7 \frac{1}{4}$
  
- 4)  $2 \frac{2}{3} \times 2 =$         A.  $5 \frac{1}{3}$             B.  $9 \frac{2}{3}$             C.  $10 \frac{1}{3}$             D.  $1 \frac{1}{3}$
  
- 5)  $6 \frac{1}{2} \times 3 =$         A.  $23 \frac{1}{2}$             B.  $25 \frac{1}{2}$             C.  $14 \frac{1}{2}$             D.  $19 \frac{1}{2}$
  
- 6)  $9 \times 5 \frac{1}{3} =$         A.  $42 \frac{1}{3}$             B.  $56 \frac{1}{3}$             C. 48            D. 42
  
- 7)  $2 \frac{4}{9} \times 4 =$         A.  $6 \frac{4}{9}$             B.  $14 \frac{4}{9}$             C.  $9 \frac{7}{9}$             D.  $5 \frac{7}{9}$
  
- 8)  $8 \frac{3}{5} \times 6 =$         A.  $56 \frac{3}{5}$             B.  $45 \frac{3}{5}$             C.  $51 \frac{3}{5}$             D.  $57 \frac{3}{5}$
  
- 9)  $5 \times 3 \frac{5}{10} =$       A.  $17 \frac{5}{10}$             B.  $23 \frac{5}{10}$             C.  $13 \frac{5}{10}$             D.  $12 \frac{5}{10}$
  
- 10)  $9 \frac{2}{9} \times 7 =$       A.  $64 \frac{5}{9}$             B.  $60 \frac{5}{9}$             C.  $59 \frac{5}{9}$             D.  $56 \frac{5}{9}$

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



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- 4)  $2 \frac{2}{3} \times 2 =$         A.  $5 \frac{1}{3}$         B.  $9 \frac{2}{3}$         C.  $10 \frac{1}{3}$         D.  $1 \frac{1}{3}$
- 5)  $6 \frac{1}{2} \times 3 =$         A.  $23 \frac{1}{2}$         B.  $25 \frac{1}{2}$         C.  $14 \frac{1}{2}$         D.  $19 \frac{1}{2}$
- 6)  $9 \times 5 \frac{1}{3} =$         A.  $42 \frac{1}{3}$         B.  $56 \frac{1}{3}$         C. 48        D. 42
- 7)  $2 \frac{4}{9} \times 4 =$         A.  $6 \frac{4}{9}$         B.  $14 \frac{4}{9}$         C.  $9 \frac{7}{9}$         D.  $5 \frac{7}{9}$
- 8)  $8 \frac{3}{5} \times 6 =$         A.  $56 \frac{3}{5}$         B.  $45 \frac{3}{5}$         C.  $51 \frac{3}{5}$         D.  $57 \frac{3}{5}$
- 9)  $5 \times 3 \frac{5}{10} =$         A.  $17 \frac{5}{10}$         B.  $23 \frac{5}{10}$         C.  $13 \frac{5}{10}$         D.  $12 \frac{5}{10}$
- 10)  $9 \frac{2}{9} \times 7 =$         A.  $64 \frac{5}{9}$         B.  $60 \frac{5}{9}$         C.  $59 \frac{5}{9}$         D.  $56 \frac{5}{9}$

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