



**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)  $5 \frac{3}{4} \times 6 =$       A.  $27 \frac{3}{4}$       B.  $40 \frac{3}{4}$       C.  $38 \frac{3}{4}$       D.  $34 \frac{2}{4}$

2)  $9 \frac{1}{2} \times 7 =$       A.  $59 \frac{1}{2}$       B.  $73 \frac{1}{2}$       C.  $60 \frac{1}{2}$       D.  $66 \frac{1}{2}$

3)  $4 \times 9 \frac{5}{7} =$       A.  $38 \frac{6}{7}$       B.  $34 \frac{5}{7}$       C.  $42 \frac{5}{7}$       D.  $44 \frac{6}{7}$

4)  $8 \times 7 \frac{3}{6} =$       A.  $68 \frac{3}{6}$       B. 72      C. 60      D.  $67 \frac{3}{6}$

5)  $7 \frac{3}{5} \times 4 =$       A.  $34 \frac{2}{5}$       B.  $36 \frac{3}{5}$       C.  $34 \frac{3}{5}$       D.  $30 \frac{2}{5}$

6)  $7 \frac{1}{3} \times 6 =$       A. 44      B.  $40 \frac{1}{3}$       C. 36      D. 54

7)  $5 \frac{1}{8} \times 5 =$       A.  $25 \frac{5}{8}$       B.  $33 \frac{1}{8}$       C.  $21 \frac{1}{8}$       D.  $22 \frac{1}{8}$

8)  $9 \times 9 \frac{5}{9} =$       A.  $77 \frac{5}{9}$       B. 86      C. 93      D. 78

9)  $4 \frac{5}{10} \times 8 =$       A. 36      B.  $30 \frac{5}{10}$       C. 43      D. 24

10)  $6 \times 6 \frac{8}{9} =$       A.  $41 \frac{3}{9}$       B.  $33 \frac{3}{9}$       C.  $34 \frac{3}{9}$       D.  $32 \frac{8}{9}$

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



**Determine the answer using estimation.**

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).

**Answers**

1)  $5 \frac{3}{4} \times 6 =$     A.  $27 \frac{3}{4}$     B.  $40 \frac{3}{4}$     C.  $38 \frac{3}{4}$     D.  $34 \frac{2}{4}$

2)  $9 \frac{1}{2} \times 7 =$     A.  $59 \frac{1}{2}$     B.  $73 \frac{1}{2}$     C.  $60 \frac{1}{2}$     D.  $66 \frac{1}{2}$

3)  $4 \times 9 \frac{5}{7} =$     A.  $38 \frac{6}{7}$     B.  $34 \frac{5}{7}$     C.  $42 \frac{5}{7}$     D.  $44 \frac{6}{7}$

4)  $8 \times 7 \frac{3}{6} =$     A.  $68 \frac{3}{6}$     B. 72    C. 60    D.  $67 \frac{3}{6}$

5)  $7 \frac{3}{5} \times 4 =$     A.  $34 \frac{2}{5}$     B.  $36 \frac{3}{5}$     C.  $34 \frac{3}{5}$     D.  $30 \frac{2}{5}$

6)  $7 \frac{1}{3} \times 6 =$     A. 44    B.  $40 \frac{1}{3}$     C. 36    D. 54

7)  $5 \frac{1}{8} \times 5 =$     A.  $25 \frac{5}{8}$     B.  $33 \frac{1}{8}$     C.  $21 \frac{1}{8}$     D.  $22 \frac{1}{8}$

8)  $9 \times 9 \frac{5}{9} =$     A.  $77 \frac{5}{9}$     B. 86    C. 93    D. 78

9)  $4 \frac{5}{10} \times 8 =$     A. 36    B.  $30 \frac{5}{10}$     C. 43    D. 24

10)  $6 \times 6 \frac{8}{9} =$     A.  $41 \frac{3}{9}$     B.  $33 \frac{3}{9}$     C.  $34 \frac{3}{9}$     D.  $32 \frac{8}{9}$

1.   **D**  

2.   **D**  

3.   **A**  

4.   **C**  

5.   **D**  

6.   **A**  

7.   **A**  

8.   **B**  

9.   **A**  

10.   **A**  

11.   **A**  

12.   **D**