



**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)  $9 \frac{4}{10} \times 3 =$     A.  $28 \frac{2}{10}$     B.  $25 \frac{4}{10}$     C.  $34 \frac{2}{10}$     D.  $32 \frac{4}{10}$

2)  $3 \times 7 \frac{4}{9} =$     A.  $17 \frac{4}{9}$     B.  $28 \frac{3}{9}$     C.  $22 \frac{3}{9}$     D.  $28 \frac{4}{9}$

3)  $7 \times 3 \frac{1}{2} =$     A.  $17 \frac{1}{2}$     B.  $31 \frac{1}{2}$     C.  $18 \frac{1}{2}$     D.  $24 \frac{1}{2}$

4)  $7 \times 2 \frac{5}{8} =$     A.  $18 \frac{3}{8}$     B.  $24 \frac{3}{8}$     C.  $11 \frac{3}{8}$     D.  $28 \frac{3}{8}$

5)  $8 \times 3 \frac{4}{8} =$     A. 28    B. 21    C. 20    D. 34

6)  $4 \times 4 \frac{4}{6} =$     A.  $14 \frac{4}{6}$     B.  $12 \frac{4}{6}$     C.  $18 \frac{4}{6}$     D.  $22 \frac{4}{6}$

7)  $8 \times 4 \frac{4}{6} =$     A.  $37 \frac{2}{6}$     B.  $42 \frac{2}{6}$     C.  $48 \frac{2}{6}$     D.  $43 \frac{2}{6}$

8)  $4 \frac{1}{2} \times 7 =$     A.  $38 \frac{1}{2}$     B.  $37 \frac{1}{2}$     C.  $21 \frac{1}{2}$     D.  $31 \frac{1}{2}$

9)  $5 \times 5 \frac{6}{8} =$     A.  $21 \frac{6}{8}$     B.  $28 \frac{6}{8}$     C.  $33 \frac{6}{8}$     D.  $23 \frac{6}{8}$

10)  $4 \times 5 \frac{1}{3} =$     A.  $16 \frac{1}{3}$     B.  $21 \frac{1}{3}$     C.  $26 \frac{1}{3}$     D.  $28 \frac{1}{3}$

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



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1.   **A**  

2.   **C**  

3.   **D**  

4.   **A**  

5.   **A**  

6.   **C**  

7.   **A**  

8.   **D**  

9.   **B**  

10.   **B**  

11.   **A**  

12.   **B**