



**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)  $5 \times 2 \frac{2}{4} =$       A.  $8 \frac{2}{4}$       B.  $6 \frac{2}{4}$       C.  $18 \frac{2}{4}$       D.  $12 \frac{2}{4}$

2)  $3 \frac{2}{3} \times 7 =$       A.  $25 \frac{2}{3}$       B.  $31 \frac{2}{3}$       C.  $18 \frac{2}{3}$       D.  $35 \frac{2}{3}$

3)  $7 \frac{1}{5} \times 6 =$       A.  $40 \frac{1}{5}$       B.  $43 \frac{1}{5}$       C.  $50 \frac{1}{5}$       D.  $36 \frac{1}{5}$

4)  $3 \times 4 \frac{2}{6} =$       A. 8      B. 13      C. 18      D. 10

5)  $2 \times 6 \frac{5}{8} =$       A.  $13 \frac{2}{8}$       B.  $9 \frac{2}{8}$       C.  $16 \frac{2}{8}$       D.  $8 \frac{5}{8}$

6)  $4 \frac{2}{3} \times 5 =$       A.  $23 \frac{1}{3}$       B.  $17 \frac{2}{3}$       C.  $28 \frac{1}{3}$       D.  $18 \frac{1}{3}$

7)  $9 \times 8 \frac{4}{9} =$       A. 76      B.  $85 \frac{4}{9}$       C.  $69 \frac{4}{9}$       D. 90

8)  $7 \frac{2}{4} \times 9 =$       A.  $81 \frac{2}{4}$       B.  $74 \frac{2}{4}$       C.  $75 \frac{2}{4}$       D.  $67 \frac{2}{4}$

9)  $2 \times 9 \frac{1}{6} =$       A.  $18 \frac{2}{6}$       B.  $14 \frac{1}{6}$       C.  $23 \frac{1}{6}$       D.  $22 \frac{2}{6}$

10)  $2 \times 3 \frac{6}{8} =$       A.  $7 \frac{4}{8}$       B.  $10 \frac{6}{8}$       C.  $10 \frac{4}{8}$       D.  $3 \frac{4}{8}$

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



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1.   **D**  

2.   **A**  

3.   **B**  

4.   **B**  

5.   **A**  

6.   **A**  

7.   **A**  

8.   **D**  

9.   **A**  

10.   **A**  

11.   **D**  

12.   **B**