



**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)  $8 \times 6 \frac{2}{3} =$       A.  $53 \frac{1}{3}$       B.  $46 \frac{2}{3}$       C.  $44 \frac{2}{3}$       D.  $64 \frac{1}{3}$

2)  $2 \frac{5}{9} \times 6 =$       A.  $15 \frac{3}{9}$       B.  $22 \frac{5}{9}$       C.  $24 \frac{3}{9}$       D.  $20 \frac{5}{9}$

3)  $7 \frac{5}{6} \times 5 =$       A.  $39 \frac{1}{6}$       B.  $32 \frac{1}{6}$       C.  $43 \frac{1}{6}$       D.  $44 \frac{1}{6}$

4)  $5 \times 4 \frac{4}{7} =$       A.  $17 \frac{4}{7}$       B.  $15 \frac{6}{7}$       C.  $22 \frac{6}{7}$       D.  $28 \frac{4}{7}$

5)  $3 \times 6 \frac{2}{3} =$       A. 20      B.  $25 \frac{2}{3}$       C.  $24 \frac{2}{3}$       D. 24

6)  $4 \times 7 \frac{4}{5} =$       A.  $26 \frac{4}{5}$       B.  $34 \frac{4}{5}$       C.  $31 \frac{1}{5}$       D.  $34 \frac{1}{5}$

7)  $6 \frac{3}{7} \times 2 =$       A.  $12 \frac{6}{7}$       B.  $16 \frac{6}{7}$       C.  $17 \frac{3}{7}$       D.  $8 \frac{3}{7}$

8)  $6 \times 2 \frac{2}{3} =$       A. 8      B. 22      C.  $20 \frac{2}{3}$       D. 16

9)  $7 \frac{5}{6} \times 7 =$       A.  $42 \frac{5}{6}$       B.  $63 \frac{5}{6}$       C.  $59 \frac{5}{6}$       D.  $54 \frac{5}{6}$

10)  $8 \times 3 \frac{3}{9} =$       A.  $16 \frac{6}{9}$       B.  $34 \frac{3}{9}$       C.  $22 \frac{3}{9}$       D.  $26 \frac{6}{9}$

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



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- 4)  $5 \times 4 \frac{4}{7} =$     A.  $17 \frac{4}{7}$     B.  $15 \frac{6}{7}$     C.  $22 \frac{6}{7}$     D.  $28 \frac{4}{7}$
- 5)  $3 \times 6 \frac{2}{3} =$     A. 20    B.  $25 \frac{2}{3}$     C.  $24 \frac{2}{3}$     D. 24
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- 7)  $6 \frac{3}{7} \times 2 =$     A.  $12 \frac{6}{7}$     B.  $16 \frac{6}{7}$     C.  $17 \frac{3}{7}$     D.  $8 \frac{3}{7}$
- 8)  $6 \times 2 \frac{2}{3} =$     A. 8    B. 22    C.  $20 \frac{2}{3}$     D. 16
- 9)  $7 \frac{5}{6} \times 7 =$     A.  $42 \frac{5}{6}$     B.  $63 \frac{5}{6}$     C.  $59 \frac{5}{6}$     D.  $54 \frac{5}{6}$
- 10)  $8 \times 3 \frac{3}{9} =$     A.  $16 \frac{6}{9}$     B.  $34 \frac{3}{9}$     C.  $22 \frac{3}{9}$     D.  $26 \frac{6}{9}$

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