



**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)  $3 \times 2 \frac{3}{7} =$       A.  $11 \frac{3}{7}$       B.  $13 \frac{3}{7}$       C.  $7 \frac{2}{7}$       D.  $3 \frac{3}{7}$
- 2)  $6 \frac{4}{6} \times 4 =$       A.  $26 \frac{4}{6}$       B.  $21 \frac{4}{6}$       C.  $30 \frac{4}{6}$       D.  $22 \frac{4}{6}$
- 3)  $2 \times 3 \frac{3}{6} =$       A.  $2 \frac{3}{6}$       B. 11      C.  $3 \frac{3}{6}$       D. 7
- 4)  $5 \frac{9}{10} \times 4 =$       A.  $27 \frac{6}{10}$       B.  $28 \frac{9}{10}$       C.  $16 \frac{9}{10}$       D.  $23 \frac{6}{10}$
- 5)  $9 \times 2 \frac{1}{6} =$       A.  $30 \frac{3}{6}$       B.  $19 \frac{3}{6}$       C.  $30 \frac{1}{6}$       D.  $36 \frac{3}{6}$
- 6)  $6 \times 2 \frac{6}{8} =$       A.  $10 \frac{6}{8}$       B.  $22 \frac{6}{8}$       C.  $24 \frac{4}{8}$       D.  $16 \frac{4}{8}$
- 7)  $3 \times 4 \frac{3}{4} =$       A.  $9 \frac{3}{4}$       B.  $9 \frac{1}{4}$       C.  $14 \frac{1}{4}$       D.  $19 \frac{1}{4}$
- 8)  $6 \frac{5}{6} \times 6 =$       A. 41      B.  $46 \frac{5}{6}$       C. 46      D. 33
- 9)  $4 \times 7 \frac{8}{9} =$       A.  $31 \frac{5}{9}$       B.  $26 \frac{5}{9}$       C.  $25 \frac{5}{9}$       D.  $36 \frac{5}{9}$
- 10)  $5 \frac{1}{6} \times 2 =$       A.  $10 \frac{2}{6}$       B.  $8 \frac{2}{6}$       C.  $6 \frac{1}{6}$       D.  $15 \frac{1}{6}$

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10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_



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