



**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)  $3 \frac{2}{4} \times 7 =$       A.  $14 \frac{2}{4}$       B.  $17 \frac{2}{4}$       C.  $24 \frac{2}{4}$       D.  $32 \frac{2}{4}$

2)  $6 \times 7 \frac{2}{4} =$       A. 45      B. 38      C.  $40 \frac{2}{4}$       D. 50

3)  $3 \frac{1}{2} \times 4 =$       A. 10      B. 14      C.  $10 \frac{1}{2}$       D. 9

4)  $4 \frac{2}{7} \times 9 =$       A.  $38 \frac{4}{7}$       B.  $33 \frac{2}{7}$       C.  $27 \frac{4}{7}$       D.  $34 \frac{2}{7}$

5)  $9 \frac{1}{2} \times 6 =$       A.  $51 \frac{1}{2}$       B. 57      C.  $64 \frac{1}{2}$       D.  $63 \frac{1}{2}$

6)  $6 \frac{2}{6} \times 3 =$       A. 19      B. 24      C.  $15 \frac{2}{6}$       D. 23

7)  $8 \frac{1}{5} \times 5 =$       A. 41      B. 50      C.  $36 \frac{1}{5}$       D. 36

8)  $2 \frac{1}{2} \times 7 =$       A.  $17 \frac{1}{2}$       B.  $25 \frac{1}{2}$       C.  $23 \frac{1}{2}$       D.  $10 \frac{1}{2}$

9)  $5 \times 3 \frac{3}{4} =$       A.  $12 \frac{3}{4}$       B.  $18 \frac{3}{4}$       C.  $11 \frac{3}{4}$       D.  $22 \frac{3}{4}$

10)  $2 \times 3 \frac{6}{8} =$       A.  $11 \frac{6}{8}$       B.  $7 \frac{4}{8}$       C.  $10 \frac{6}{8}$       D.  $11 \frac{4}{8}$

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



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1.     **C**    

2.     **A**    

3.     **B**    

4.     **A**    

5.     **B**    

6.     **A**    

7.     **A**    

8.     **A**    

9.     **B**    

10.     **B**    

11.     **A**    

12.     **B**