



**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)  $3 \frac{1}{2} \times 7 =$       A.  $14 \frac{1}{2}$       B.  $18 \frac{1}{2}$       C.  $24 \frac{1}{2}$       D.  $35 \frac{1}{2}$

2)  $6 \frac{3}{8} \times 3 =$       A.  $19 \frac{1}{8}$       B.  $24 \frac{1}{8}$       C.  $16 \frac{3}{8}$       D.  $16 \frac{1}{8}$

3)  $2 \frac{3}{8} \times 6 =$       A.  $9 \frac{2}{8}$       B.  $14 \frac{2}{8}$       C.  $22 \frac{3}{8}$       D.  $6 \frac{2}{8}$

4)  $8 \times 3 \frac{1}{4} =$       A. 26      B. 20      C.  $35 \frac{1}{4}$       D.  $20 \frac{1}{4}$

5)  $8 \times 2 \frac{3}{6} =$       A. 20      B. 28      C.  $26 \frac{3}{6}$       D.  $27 \frac{3}{6}$

6)  $4 \frac{2}{6} \times 4 =$       A.  $23 \frac{2}{6}$       B.  $17 \frac{2}{6}$       C.  $13 \frac{2}{6}$       D.  $14 \frac{2}{6}$

7)  $9 \frac{1}{6} \times 7 =$       A.  $64 \frac{1}{6}$       B.  $77 \frac{1}{6}$       C.  $60 \frac{1}{6}$       D.  $56 \frac{1}{6}$

8)  $3 \times 9 \frac{3}{10} =$       A.  $32 \frac{3}{10}$       B.  $25 \frac{3}{10}$       C.  $27 \frac{9}{10}$       D.  $34 \frac{3}{10}$

9)  $2 \times 8 \frac{3}{5} =$       A.  $17 \frac{1}{5}$       B.  $22 \frac{3}{5}$       C.  $21 \frac{3}{5}$       D.  $20 \frac{1}{5}$

10)  $4 \times 8 \frac{1}{4} =$       A. 30      B. 33      C. 28      D. 38

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



**Determine the answer using estimation.**

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).

**Answers**

1)  $3 \frac{1}{2} \times 7 =$       A.  $14 \frac{1}{2}$       B.  $18 \frac{1}{2}$       C.  $24 \frac{1}{2}$       D.  $35 \frac{1}{2}$

2)  $6 \frac{3}{8} \times 3 =$       A.  $19 \frac{1}{8}$       B.  $24 \frac{1}{8}$       C.  $16 \frac{3}{8}$       D.  $16 \frac{1}{8}$

3)  $2 \frac{3}{8} \times 6 =$       A.  $9 \frac{2}{8}$       B.  $14 \frac{2}{8}$       C.  $22 \frac{3}{8}$       D.  $6 \frac{2}{8}$

4)  $8 \times 3 \frac{1}{4} =$       A. 26      B. 20      C.  $35 \frac{1}{4}$       D.  $20 \frac{1}{4}$

5)  $8 \times 2 \frac{3}{6} =$       A. 20      B. 28      C.  $26 \frac{3}{6}$       D.  $27 \frac{3}{6}$

6)  $4 \frac{2}{6} \times 4 =$       A.  $23 \frac{2}{6}$       B.  $17 \frac{2}{6}$       C.  $13 \frac{2}{6}$       D.  $14 \frac{2}{6}$

7)  $9 \frac{1}{6} \times 7 =$       A.  $64 \frac{1}{6}$       B.  $77 \frac{1}{6}$       C.  $60 \frac{1}{6}$       D.  $56 \frac{1}{6}$

8)  $3 \times 9 \frac{3}{10} =$       A.  $32 \frac{3}{10}$       B.  $25 \frac{3}{10}$       C.  $27 \frac{9}{10}$       D.  $34 \frac{3}{10}$

9)  $2 \times 8 \frac{3}{5} =$       A.  $17 \frac{1}{5}$       B.  $22 \frac{3}{5}$       C.  $21 \frac{3}{5}$       D.  $20 \frac{1}{5}$

10)  $4 \times 8 \frac{1}{4} =$       A. 30      B. 33      C. 28      D. 38

1.     **C**    

2.     **A**    

3.     **B**    

4.     **A**    

5.     **A**    

6.     **B**    

7.     **A**    

8.     **C**    

9.     **A**    

10.    **B**   

11.    **A**   

12.    **A**