

**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. \_\_\_\_\_

2. \_\_\_\_\_

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9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

1)  $5 \times 8 \frac{2}{3} =$  A.  $49 \frac{2}{3}$  B.  $37 \frac{1}{3}$  C.  $47 \frac{1}{3}$  D.  $43 \frac{1}{3}$

2)  $5 \frac{2}{6} \times 4 =$  A.  $27 \frac{2}{6}$  B.  $21 \frac{2}{6}$  C.  $16 \frac{2}{6}$  D.  $26 \frac{2}{6}$

3)  $2 \times 3 \frac{6}{8} =$  A.  $10 \frac{6}{8}$  B.  $7 \frac{4}{8}$  C.  $2 \frac{6}{8}$  D.  $12 \frac{6}{8}$

4)  $7 \frac{3}{5} \times 4 =$  A.  $36 \frac{3}{5}$  B.  $34 \frac{3}{5}$  C.  $30 \frac{2}{5}$  D.  $25 \frac{3}{5}$

5)  $9 \times 9 \frac{1}{4} =$  A.  $93 \frac{1}{4}$  B.  $83 \frac{1}{4}$  C.  $99 \frac{1}{4}$  D.  $79 \frac{1}{4}$

6)  $5 \frac{1}{9} \times 9 =$  A.  $57 \frac{1}{9}$  B. 42 C. 46 D. 63

7)  $3 \frac{5}{9} \times 6 =$  A.  $16 \frac{5}{9}$  B.  $15 \frac{3}{9}$  C.  $21 \frac{3}{9}$  D.  $15 \frac{5}{9}$

8)  $5 \frac{1}{10} \times 2 =$  A.  $15 \frac{2}{10}$  B.  $10 \frac{2}{10}$  C.  $14 \frac{2}{10}$  D.  $16 \frac{1}{10}$

9)  $9 \times 8 \frac{1}{3} =$  A. 84 B.  $70 \frac{1}{3}$  C. 63 D. 75

10)  $5 \times 4 \frac{7}{8} =$  A.  $17 \frac{7}{8}$  B.  $28 \frac{7}{8}$  C.  $17 \frac{3}{8}$  D.  $24 \frac{3}{8}$



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