

**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)  $3 \frac{6}{8} \times 6 =$  A.  $22 \frac{4}{8}$  B.  $16 \frac{4}{8}$  C.  $28 \frac{6}{8}$  D.  $16 \frac{6}{8}$

2)  $2 \times 6 \frac{1}{2} =$  A. 13 B. 9 C.  $17 \frac{1}{2}$  D. 18

3)  $9 \frac{1}{7} \times 5 =$  A.  $55 \frac{5}{7}$  B.  $45 \frac{5}{7}$  C.  $54 \frac{1}{7}$  D.  $42 \frac{1}{7}$

4)  $9 \frac{5}{6} \times 4 =$  A.  $34 \frac{5}{6}$  B.  $39 \frac{2}{6}$  C.  $44 \frac{2}{6}$  D.  $32 \frac{2}{6}$

5)  $3 \times 9 \frac{2}{4} =$  A.  $24 \frac{2}{4}$  B.  $28 \frac{2}{4}$  C.  $34 \frac{2}{4}$  D.  $23 \frac{2}{4}$

6)  $9 \times 6 \frac{2}{8} =$  A.  $65 \frac{2}{8}$  B.  $52 \frac{2}{8}$  C.  $45 \frac{2}{8}$  D.  $56 \frac{2}{8}$

7)  $7 \frac{6}{7} \times 2 =$  A.  $12 \frac{5}{7}$  B.  $10 \frac{5}{7}$  C.  $15 \frac{5}{7}$  D.  $20 \frac{6}{7}$

8)  $4 \frac{8}{10} \times 3 =$  A.  $8 \frac{8}{10}$  B.  $19 \frac{8}{10}$  C.  $14 \frac{4}{10}$  D.  $8 \frac{4}{10}$

9)  $6 \times 8 \frac{3}{5} =$  A.  $45 \frac{3}{5}$  B.  $51 \frac{3}{5}$  C.  $42 \frac{3}{5}$  D.  $56 \frac{3}{5}$

10)  $7 \frac{1}{3} \times 2 =$  A.  $14 \frac{2}{3}$  B.  $10 \frac{1}{3}$  C.  $18 \frac{1}{3}$  D.  $12 \frac{1}{3}$

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- 8)  $4 \frac{8}{10} \times 3 =$     A.  $8 \frac{8}{10}$     B.  $19 \frac{8}{10}$     C.  $14 \frac{4}{10}$     D.  $8 \frac{4}{10}$
- 9)  $6 \times 8 \frac{3}{5} =$     A.  $45 \frac{3}{5}$     B.  $51 \frac{3}{5}$     C.  $42 \frac{3}{5}$     D.  $56 \frac{3}{5}$
- 10)  $7 \frac{1}{3} \times 2 =$     A.  $14 \frac{2}{3}$     B.  $10 \frac{1}{3}$     C.  $18 \frac{1}{3}$     D.  $12 \frac{1}{3}$

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