

**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 5×6 and 5×7 .

$$5 \times 6 \frac{2}{3} = 33 \frac{1}{3}$$

The actual answer is $33 \frac{1}{3}$ which is between 5×6 (30) and 5×7 (35).

Answers

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

1) $5 \times 7 \frac{1}{9} =$ A. $35 \frac{5}{9}$ B. $42 \frac{1}{9}$ C. $43 \frac{5}{9}$ D. $31 \frac{5}{9}$

2) $7 \frac{4}{9} \times 7 =$ A. $42 \frac{1}{9}$ B. $45 \frac{4}{9}$ C. $45 \frac{1}{9}$ D. $52 \frac{1}{9}$

3) $3 \frac{1}{7} \times 4 =$ A. $10 \frac{1}{7}$ B. $19 \frac{1}{7}$ C. $12 \frac{4}{7}$ D. $8 \frac{1}{7}$

4) $6 \frac{2}{3} \times 5 =$ A. $27 \frac{2}{3}$ B. $33 \frac{1}{3}$ C. $28 \frac{2}{3}$ D. $26 \frac{2}{3}$

5) $5 \times 5 \frac{7}{9} =$ A. $22 \frac{8}{9}$ B. $32 \frac{8}{9}$ C. $28 \frac{8}{9}$ D. $23 \frac{8}{9}$

6) $2 \frac{2}{3} \times 2 =$ A. $5 \frac{1}{3}$ B. $0 \frac{1}{3}$ C. $0 \frac{2}{3}$ D. $8 \frac{1}{3}$

7) $5 \times 4 \frac{5}{6} =$ A. $24 \frac{1}{6}$ B. $17 \frac{1}{6}$ C. $17 \frac{5}{6}$ D. $28 \frac{5}{6}$

8) $2 \times 6 \frac{7}{9} =$ A. $17 \frac{5}{9}$ B. $17 \frac{7}{9}$ C. $18 \frac{7}{9}$ D. $13 \frac{5}{9}$

9) $9 \frac{4}{6} \times 2 =$ A. $23 \frac{2}{6}$ B. $15 \frac{4}{6}$ C. $16 \frac{2}{6}$ D. $19 \frac{2}{6}$

10) $2 \frac{6}{8} \times 8 =$ A. 26 B. $28 \frac{6}{8}$ C. 22 D. 12

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