

**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) $5 \times 8 \frac{2}{3} =$ 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**