

**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) $9 \times 4 \frac{4}{5} =$ A. $32 \frac{1}{5}$ B. $43 \frac{1}{5}$ C. $32 \frac{4}{5}$ D. $49 \frac{4}{5}$

2) $2 \times 2 \frac{4}{10} =$ A. $0 \frac{4}{10}$ B. $4 \frac{8}{10}$ C. $2 \frac{4}{10}$ D. $9 \frac{4}{10}$

3) $7 \frac{4}{6} \times 2 =$ A. $15 \frac{2}{6}$ B. $10 \frac{2}{6}$ C. $18 \frac{2}{6}$ D. $20 \frac{4}{6}$

4) $8 \frac{1}{2} \times 9 =$ A. $68 \frac{1}{2}$ B. $84 \frac{1}{2}$ C. $76 \frac{1}{2}$ D. $63 \frac{1}{2}$

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

6) $5 \frac{4}{6} \times 3 =$ A. 22 B. 17 C. 13 D. 21

7) $3 \frac{4}{9} \times 2 =$ A. $2 \frac{4}{9}$ B. $6 \frac{8}{9}$ C. $2 \frac{8}{9}$ D. $10 \frac{8}{9}$

8) $8 \times 8 \frac{6}{8} =$ A. 60 B. $61 \frac{6}{8}$ C. 70 D. 62

9) $2 \times 9 \frac{7}{10} =$ A. $16 \frac{4}{10}$ B. $14 \frac{7}{10}$ C. $19 \frac{4}{10}$ D. $24 \frac{4}{10}$

10) $6 \frac{1}{8} \times 5 =$ A. $40 \frac{5}{8}$ B. $38 \frac{5}{8}$ C. $30 \frac{5}{8}$ D. $37 \frac{5}{8}$

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