

**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) $5 \frac{1}{9} \times 4 =$ A. $16 \frac{4}{9}$ B. $20 \frac{4}{9}$ C. $16 \frac{4}{9}$ D. $21 \frac{1}{9}$

2) $9 \times 9 \frac{2}{4} =$ A. $79 \frac{1}{2}$ B. $85 \frac{1}{2}$ C. $72 \frac{1}{2}$ D. $92 \frac{1}{2}$

3) $6 \frac{1}{2} \times 7 =$ A. $52 \frac{1}{2}$ B. $53 \frac{1}{2}$ C. $47 \frac{1}{2}$ D. $45 \frac{1}{2}$

4) $7 \times 4 \frac{3}{4} =$ A. $33 \frac{1}{4}$ B. $37 \frac{1}{4}$ C. $25 \frac{1}{4}$ D. $42 \frac{1}{4}$

5) $4 \frac{2}{5} \times 2 =$ A. $6 \frac{4}{5}$ B. $8 \frac{4}{5}$ C. $6 \frac{2}{5}$ D. $6 \frac{4}{5}$

6) $5 \frac{1}{10} \times 9 =$ A. $41 \frac{9}{10}$ B. $45 \frac{9}{10}$ C. $52 \frac{1}{10}$ D. $57 \frac{9}{10}$

7) $9 \frac{5}{8} \times 7 =$ A. $77 \frac{3}{8}$ B. $66 \frac{5}{8}$ C. $67 \frac{3}{8}$ D. $61 \frac{3}{8}$

8) $7 \times 2 \frac{1}{4} =$ A. $15 \frac{3}{4}$ B. $10 \frac{3}{4}$ C. $17 \frac{1}{4}$ D. $10 \frac{1}{4}$

9) $2 \times 6 \frac{7}{8} =$ A. $8 \frac{7}{8}$ B. $17 \frac{3}{4}$ C. $13 \frac{3}{4}$ D. $10 \frac{7}{8}$

10) $4 \frac{7}{8} \times 8 =$ A. $28 \frac{7}{8}$ B. $36 \frac{7}{8}$ C. $37 \frac{7}{8}$ D. 0

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- 10) $4\frac{7}{8} \times 8 =$ A. $28\frac{7}{8}$ B. $36\frac{7}{8}$ C. $37\frac{7}{8}$ D. 0

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