

**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) $2 \frac{1}{6} \times 4 =$ A. $8 \frac{2}{3}$ B. $10 \frac{1}{6}$ C. $15 \frac{2}{3}$ D. $14 \frac{2}{3}$

2) $8 \times 9 \frac{3}{4} =$ A. 0 B. $68 \frac{3}{4}$ C. $69 \frac{3}{4}$ D. $70 \frac{3}{4}$

3) $5 \times 3 \frac{1}{2} =$ A. $24 \frac{1}{2}$ B. $23 \frac{1}{2}$ C. $11 \frac{1}{2}$ D. $17 \frac{1}{2}$

4) $6 \times 3 \frac{1}{2} =$ A. $14 \frac{1}{2}$ B. $21 \frac{1}{2}$ C. $22 \frac{1}{2}$ D. 0

5) $5 \frac{5}{6} \times 4 =$ A. $17 \frac{1}{3}$ B. $23 \frac{1}{3}$ C. $21 \frac{5}{6}$ D. $17 \frac{5}{6}$

6) $2 \times 3 \frac{2}{6} =$ A. $6 \frac{2}{3}$ B. $2 \frac{1}{3}$ C. $10 \frac{2}{3}$ D. $3 \frac{2}{3}$

7) $5 \times 8 \frac{1}{5} =$ A. $43 \frac{1}{5}$ B. $41 \frac{1}{5}$ C. $38 \frac{1}{5}$ D. 0

8) $3 \times 2 \frac{1}{6} =$ A. $4 \frac{1}{2}$ B. $3 \frac{1}{6}$ C. $6 \frac{1}{2}$ D. $11 \frac{1}{2}$

9) $8 \frac{5}{6} \times 3 =$ A. $20 \frac{1}{2}$ B. $26 \frac{1}{2}$ C. $30 \frac{1}{2}$ D. $29 \frac{1}{2}$

10) $9 \frac{2}{7} \times 9 =$ A. $87 \frac{2}{7}$ B. $77 \frac{4}{7}$ C. $83 \frac{4}{7}$ D. $88 \frac{2}{7}$

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- 1) $2\frac{1}{6} \times 4 =$ A. $8\frac{2}{3}$ B. $10\frac{1}{6}$ C. $15\frac{2}{3}$ D. $14\frac{2}{3}$
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- 10) $9\frac{2}{7} \times 9 =$ A. $87\frac{2}{7}$ B. $77\frac{4}{7}$ C. $83\frac{4}{7}$ D. $88\frac{2}{7}$

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