

**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) $4 \frac{1}{10} \times 2 =$ A. $5 \frac{2}{10}$ B. $6 \frac{2}{10}$ C. $5 \frac{1}{10}$ D. $8 \frac{2}{10}$

2) $4 \frac{2}{3} \times 7 =$ A. $32 \frac{2}{3}$ B. $39 \frac{2}{3}$ C. $24 \frac{2}{3}$ D. $42 \frac{2}{3}$

3) $6 \frac{1}{4} \times 2 =$ A. $17 \frac{1}{4}$ B. $12 \frac{2}{4}$ C. $17 \frac{2}{4}$ D. $10 \frac{1}{4}$

4) $6 \frac{7}{8} \times 2 =$ A. $16 \frac{6}{8}$ B. $17 \frac{7}{8}$ C. $10 \frac{6}{8}$ D. $13 \frac{6}{8}$

5) $4 \frac{1}{2} \times 5 =$ A. $18 \frac{1}{2}$ B. $15 \frac{1}{2}$ C. $30 \frac{1}{2}$ D. $22 \frac{1}{2}$

6) $2 \frac{9}{10} \times 9 =$ A. $29 \frac{9}{10}$ B. $31 \frac{9}{10}$ C. $15 \frac{9}{10}$ D. $26 \frac{1}{10}$

7) $8 \frac{6}{7} \times 7 =$ A. $52 \frac{6}{7}$ B. 70 C. 54 D. 62

8) $3 \times 6 \frac{7}{10} =$ A. $20 \frac{7}{10}$ B. $16 \frac{7}{10}$ C. $23 \frac{7}{10}$ D. $14 \frac{7}{10}$

9) $8 \times 5 \frac{1}{3} =$ A. $52 \frac{2}{3}$ B. $42 \frac{2}{3}$ C. $38 \frac{1}{3}$ D. $51 \frac{2}{3}$

10) $2 \frac{2}{3} \times 4 =$ A. $14 \frac{2}{3}$ B. $15 \frac{2}{3}$ C. $16 \frac{2}{3}$ D. $10 \frac{2}{3}$

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Answers

- 1) $4 \frac{1}{10} \times 2 =$ A. $5 \frac{2}{10}$ B. $6 \frac{2}{10}$ C. $5 \frac{1}{10}$ D. $8 \frac{2}{10}$
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- 4) $6 \frac{7}{8} \times 2 =$ A. $16 \frac{6}{8}$ B. $17 \frac{7}{8}$ C. $10 \frac{6}{8}$ D. $13 \frac{6}{8}$
- 5) $4 \frac{1}{2} \times 5 =$ A. $18 \frac{1}{2}$ B. $15 \frac{1}{2}$ C. $30 \frac{1}{2}$ D. $22 \frac{1}{2}$
- 6) $2 \frac{9}{10} \times 9 =$ A. $29 \frac{9}{10}$ B. $31 \frac{9}{10}$ C. $15 \frac{9}{10}$ D. $26 \frac{1}{10}$
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- 10) $2 \frac{2}{3} \times 4 =$ A. $14 \frac{2}{3}$ B. $15 \frac{2}{3}$ C. $16 \frac{2}{3}$ D. $10 \frac{2}{3}$

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