

**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) $5\frac{1}{6} \times 4 =$ A. $20\frac{2}{3}$ B. $21\frac{1}{6}$ C. $22\frac{1}{6}$ D. $16\frac{1}{6}$

2) $7 \times 2\frac{5}{10} =$ A. $10\frac{1}{2}$ B. $11\frac{1}{2}$ C. $12\frac{1}{2}$ D. $17\frac{1}{2}$

3) $5\frac{2}{4} \times 6 =$ A. $33\frac{1}{2}$ B. $32\frac{1}{2}$ C. 33 D. 38

4) $8 \times 7\frac{5}{6} =$ A. $67\frac{2}{3}$ B. $62\frac{2}{3}$ C. $54\frac{2}{3}$ D. $66\frac{2}{3}$

5) $6 \times 7\frac{1}{9} =$ A. $52\frac{2}{3}$ B. $42\frac{2}{3}$ C. $45\frac{1}{9}$ D. $36\frac{2}{3}$

6) $3 \times 2\frac{3}{6} =$ A. $7\frac{1}{2}$ B. $13\frac{1}{2}$ C. $11\frac{1}{2}$ D. $6\frac{1}{2}$

7) $8 \times 6\frac{3}{6} =$ A. 59 B. $44\frac{1}{2}$ C. $45\frac{1}{2}$ D. 52

8) $6 \times 8\frac{1}{7} =$ A. $44\frac{6}{7}$ B. $48\frac{6}{7}$ C. $50\frac{1}{7}$ D. $60\frac{6}{7}$

9) $3 \times 6\frac{2}{9} =$ A. $15\frac{2}{3}$ B. $18\frac{2}{3}$ C. $19\frac{2}{9}$ D. $14\frac{2}{9}$

10) $8\frac{1}{10} \times 2 =$ A. $21\frac{1}{5}$ B. $16\frac{1}{5}$ C. $22\frac{1}{5}$ D. $14\frac{1}{5}$



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1. **A**

2. **D**

3. **C**

4. **B**

5. **B**

6. **A**

7. **D**

8. **B**

9. **B**

10. **B**

11. **D**

12. **C**