

**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) $8 \frac{1}{3} \times 8 =$ A. $70 \frac{1}{3}$ B. $62 \frac{2}{3}$ C. $66 \frac{2}{3}$ D. $74 \frac{2}{3}$

2) $5 \times 3 \frac{3}{5} =$ A. $16 \frac{3}{5}$ B. 11 C. $13 \frac{3}{5}$ D. 18

3) $6 \frac{2}{3} \times 7 =$ A. $47 \frac{2}{3}$ B. $46 \frac{2}{3}$ C. $45 \frac{2}{3}$ D. $40 \frac{2}{3}$

4) $7 \frac{2}{9} \times 8 =$ A. $48 \frac{7}{9}$ B. $61 \frac{2}{9}$ C. $52 \frac{7}{9}$ D. $57 \frac{7}{9}$

5) $3 \frac{3}{4} \times 9 =$ A. $38 \frac{3}{4}$ B. $18 \frac{3}{4}$ C. $33 \frac{3}{4}$ D. $34 \frac{3}{4}$

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

7) $9 \times 9 \frac{2}{3} =$ A. 72 B. $87 \frac{2}{3}$ C. 87 D. 94

8) $6 \times 6 \frac{2}{10} =$ A. $37 \frac{1}{5}$ B. $33 \frac{1}{5}$ C. $32 \frac{1}{5}$ D. $38 \frac{1}{5}$

9) $8 \times 3 \frac{7}{9} =$ A. $36 \frac{2}{9}$ B. $30 \frac{2}{9}$ C. $22 \frac{2}{9}$ D. $28 \frac{7}{9}$

10) $7 \frac{1}{5} \times 7 =$ A. $58 \frac{2}{5}$ B. $50 \frac{2}{5}$ C. $52 \frac{1}{5}$ D. $54 \frac{1}{5}$

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