



Estimating Multiplication of Fractions

Name: _____

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) $9 \frac{4}{6} \times 3 =$ A. $34 \frac{4}{6}$ B. 29 C. 34 D. 25

1. _____

2) $5 \frac{1}{2} \times 8 =$ A. $36 \frac{1}{2}$ B. 44 C. $51 \frac{1}{2}$ D. $50 \frac{1}{2}$

2. _____

3) $5 \frac{6}{9} \times 5 =$ A. $28 \frac{3}{9}$ B. $22 \frac{3}{9}$ C. $23 \frac{6}{9}$ D. $35 \frac{3}{9}$

3. _____

4) $9 \times 5 \frac{2}{3} =$ A. $42 \frac{2}{3}$ B. 36 C. $58 \frac{2}{3}$ D. 51

4. _____

5) $4 \times 9 \frac{2}{3} =$ A. $34 \frac{2}{3}$ B. $38 \frac{2}{3}$ C. $44 \frac{2}{3}$ D. $42 \frac{2}{3}$

5. _____

6) $9 \times 3 \frac{3}{10} =$ A. $45 \frac{7}{10}$ B. $38 \frac{7}{10}$ C. $39 \frac{3}{10}$ D. $29 \frac{7}{10}$

6. _____

7) $2 \frac{1}{2} \times 2 =$ A. $2 \frac{1}{2}$ B. 0 C. 5 D. 10

7. _____

8) $9 \frac{3}{4} \times 8 =$ A. 78 B. 82 C. $68 \frac{3}{4}$ D. $70 \frac{3}{4}$

8. _____

9) $3 \frac{5}{8} \times 4 =$ A. $8 \frac{5}{8}$ B. $19 \frac{4}{8}$ C. $20 \frac{5}{8}$ D. $14 \frac{4}{8}$

9. _____

10) $7 \times 6 \frac{6}{8} =$ A. $39 \frac{2}{8}$ B. $53 \frac{6}{8}$ C. $47 \frac{2}{8}$ D. $51 \frac{2}{8}$

10. _____



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Name: **Answer Key**

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10) $7 \times 6 \frac{6}{8} =$ A. $39 \frac{2}{8}$ B. $53 \frac{6}{8}$ C. $47 \frac{2}{8}$ D. $51 \frac{2}{8}$

Answers

1. **B**

2. **B**

3. **A**

4. **D**

5. **B**

6. **D**

7. **C**

8. **A**

9. **D**

10. **C**

11. **D**

12. **B**