



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 .

The actual answer is $33 \frac{1}{3}$ which is between 5×6 (30) and 5×7 (35).

Answers

1) $6 \frac{2}{10} \times 5 =$ A. 25 B. 31 C. $28 \frac{2}{10}$ D. 27

1. _____

2) $9 \times 2 \frac{1}{9} =$ A. 14 B. 19 C. 30 D. 31

2. _____

3) $3 \times 3 \frac{3}{4} =$ A. $5 \frac{1}{4}$ B. $11 \frac{1}{4}$ C. $16 \frac{3}{4}$ D. $7 \frac{1}{4}$

3. _____

4) $2 \frac{2}{3} \times 2 =$ A. $5 \frac{1}{3}$ B. $9 \frac{2}{3}$ C. $10 \frac{1}{3}$ D. $1 \frac{1}{3}$

4. _____

5) $6 \frac{1}{2} \times 3 =$ A. $23 \frac{1}{2}$ B. $25 \frac{1}{2}$ C. $14 \frac{1}{2}$ D. $19 \frac{1}{2}$

5. _____

6) $9 \times 5 \frac{1}{3} =$ A. $42 \frac{1}{3}$ B. $56 \frac{1}{3}$ C. 48 D. 42

6. _____

7) $2 \frac{4}{9} \times 4 =$ A. $6 \frac{4}{9}$ B. $14 \frac{4}{9}$ C. $9 \frac{7}{9}$ D. $5 \frac{7}{9}$

7. _____

8) $8 \frac{3}{5} \times 6 =$ A. $56 \frac{3}{5}$ B. $45 \frac{3}{5}$ C. $51 \frac{3}{5}$ D. $57 \frac{3}{5}$

8. _____

9) $5 \times 3 \frac{5}{10} =$ A. $17 \frac{5}{10}$ B. $23 \frac{5}{10}$ C. $13 \frac{5}{10}$ D. $12 \frac{5}{10}$

9. _____

10) $9 \frac{2}{9} \times 7 =$ A. $64 \frac{5}{9}$ B. $60 \frac{5}{9}$ C. $59 \frac{5}{9}$ D. $56 \frac{5}{9}$

10. _____

11. _____

12. _____



Estimating Multiplication of Fractions

Name: **Answer Key**

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).

1) $6 \frac{2}{10} \times 5 =$ A. 25 B. 31 C. $28 \frac{2}{10}$ D. 27

2) $9 \times 2 \frac{1}{9} =$ A. 14 B. 19 C. 30 D. 31

3) $3 \times 3 \frac{3}{4} =$ A. $5 \frac{1}{4}$ B. $11 \frac{1}{4}$ C. $16 \frac{3}{4}$ D. $7 \frac{1}{4}$

4) $2 \frac{2}{3} \times 2 =$ A. $5 \frac{1}{3}$ B. $9 \frac{2}{3}$ C. $10 \frac{1}{3}$ D. $1 \frac{1}{3}$

5) $6 \frac{1}{2} \times 3 =$ A. $23 \frac{1}{2}$ B. $25 \frac{1}{2}$ C. $14 \frac{1}{2}$ D. $19 \frac{1}{2}$

6) $9 \times 5 \frac{1}{3} =$ A. $42 \frac{1}{3}$ B. $56 \frac{1}{3}$ C. 48 D. 42

7) $2 \frac{4}{9} \times 4 =$ A. $6 \frac{4}{9}$ B. $14 \frac{4}{9}$ C. $9 \frac{7}{9}$ D. $5 \frac{7}{9}$

8) $8 \frac{3}{5} \times 6 =$ A. $56 \frac{3}{5}$ B. $45 \frac{3}{5}$ C. $51 \frac{3}{5}$ D. $57 \frac{3}{5}$

9) $5 \times 3 \frac{5}{10} =$ A. $17 \frac{5}{10}$ B. $23 \frac{5}{10}$ C. $13 \frac{5}{10}$ D. $12 \frac{5}{10}$

10) $9 \frac{2}{9} \times 7 =$ A. $64 \frac{5}{9}$ B. $60 \frac{5}{9}$ C. $59 \frac{5}{9}$ D. $56 \frac{5}{9}$

Answers

1. **B**

2. **B**

3. **B**

4. **A**

5. **D**

6. **C**

7. **C**

8. **C**

9. **A**

10. **A**

11. **D**

12. **B**