



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) $5 \frac{1}{8} \times 5 =$ A. $34 \frac{1}{8}$ B. $32 \frac{1}{8}$ C. $25 \frac{5}{8}$ D. $22 \frac{1}{8}$

1. _____

2) $7 \times 7 \frac{7}{8} =$ A. $58 \frac{7}{8}$ B. $55 \frac{1}{8}$ C. $45 \frac{1}{8}$ D. $45 \frac{7}{8}$

2. _____

3) $6 \frac{2}{4} \times 4 =$ A. 22 B. 26 C. $22 \frac{2}{4}$ D. 21

3. _____

4) $3 \times 6 \frac{5}{9} =$ A. $14 \frac{5}{9}$ B. $15 \frac{5}{9}$ C. $19 \frac{6}{9}$ D. $23 \frac{6}{9}$

4. _____

5) $3 \frac{6}{9} \times 2 =$ A. $3 \frac{6}{9}$ B. $7 \frac{3}{9}$ C. $11 \frac{6}{9}$ D. $2 \frac{6}{9}$

5. _____

6) $3 \times 6 \frac{3}{5} =$ A. $19 \frac{4}{5}$ B. $25 \frac{3}{5}$ C. $23 \frac{4}{5}$ D. $24 \frac{3}{5}$

6. _____

7) $6 \frac{4}{7} \times 7 =$ A. 46 B. 52 C. $38 \frac{4}{7}$ D. $52 \frac{4}{7}$

7. _____

8) $8 \times 6 \frac{2}{8} =$ A. 60 B. 50 C. $44 \frac{2}{8}$ D. 46

8. _____

9) $4 \frac{1}{2} \times 9 =$ A. $40 \frac{1}{2}$ B. $34 \frac{1}{2}$ C. $27 \frac{1}{2}$ D. $47 \frac{1}{2}$

9. _____

10) $8 \frac{6}{10} \times 2 =$ A. $22 \frac{6}{10}$ B. $13 \frac{6}{10}$ C. $20 \frac{2}{10}$ D. $17 \frac{2}{10}$

10. _____



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.

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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 .

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

Answers

1) $5 \frac{1}{8} \times 5 =$ A. $34 \frac{1}{8}$ B. $32 \frac{1}{8}$ C. $25 \frac{5}{8}$ D. $22 \frac{1}{8}$

1. **C**

2) $7 \times 7 \frac{7}{8} =$ A. $58 \frac{7}{8}$ B. $55 \frac{1}{8}$ C. $45 \frac{1}{8}$ D. $45 \frac{7}{8}$

2. **B**

3) $6 \frac{2}{4} \times 4 =$ A. 22 B. 26 C. $22 \frac{2}{4}$ D. 21

3. **B**

4) $3 \times 6 \frac{5}{9} =$ A. $14 \frac{5}{9}$ B. $15 \frac{5}{9}$ C. $19 \frac{6}{9}$ D. $23 \frac{6}{9}$

4. **C**

5) $3 \frac{6}{9} \times 2 =$ A. $3 \frac{6}{9}$ B. $7 \frac{3}{9}$ C. $11 \frac{6}{9}$ D. $2 \frac{6}{9}$

5. **B**

6) $3 \times 6 \frac{3}{5} =$ A. $19 \frac{4}{5}$ B. $25 \frac{3}{5}$ C. $23 \frac{4}{5}$ D. $24 \frac{3}{5}$

6. **A**

7) $6 \frac{4}{7} \times 7 =$ A. 46 B. 52 C. $38 \frac{4}{7}$ D. $52 \frac{4}{7}$

7. **A**

8) $8 \times 6 \frac{2}{8} =$ A. 60 B. 50 C. $44 \frac{2}{8}$ D. 46

8. **B**

9) $4 \frac{1}{2} \times 9 =$ A. $40 \frac{1}{2}$ B. $34 \frac{1}{2}$ C. $27 \frac{1}{2}$ D. $47 \frac{1}{2}$

9. **D**

10) $8 \frac{6}{10} \times 2 =$ A. $22 \frac{6}{10}$ B. $13 \frac{6}{10}$ C. $20 \frac{2}{10}$ D. $17 \frac{2}{10}$

10. **C**