



Determine the answer using estimation.

Answers

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. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

- 1) $5 \frac{6}{9} \times 5 =$ A. $32 \frac{6}{9}$ B. $22 \frac{3}{9}$ C. $28 \frac{3}{9}$ D. $23 \frac{6}{9}$
- 2) $2 \frac{7}{10} \times 2 =$ A. $5 \frac{4}{10}$ B. $1 \frac{4}{10}$ C. $7 \frac{7}{10}$ D. $3 \frac{7}{10}$
- 3) $8 \frac{2}{4} \times 9 =$ A. $84 \frac{2}{4}$ B. $71 \frac{2}{4}$ C. $76 \frac{2}{4}$ D. $83 \frac{2}{4}$
- 4) $9 \times 4 \frac{2}{8} =$ A. $38 \frac{2}{8}$ B. $47 \frac{2}{8}$ C. $34 \frac{2}{8}$ D. $48 \frac{2}{8}$
- 5) $5 \times 6 \frac{3}{6} =$ A. $29 \frac{3}{6}$ B. $32 \frac{3}{6}$ C. $40 \frac{3}{6}$ D. $38 \frac{3}{6}$
- 6) $6 \frac{3}{4} \times 9 =$ A. $45 \frac{3}{4}$ B. $60 \frac{3}{4}$ C. $65 \frac{3}{4}$ D. $52 \frac{3}{4}$
- 7) $6 \times 3 \frac{6}{7} =$ A. $25 \frac{6}{7}$ B. $17 \frac{6}{7}$ C. $23 \frac{1}{7}$ D. $16 \frac{1}{7}$
- 8) $8 \times 6 \frac{4}{8} =$ A. $58 \frac{4}{8}$ B. 64 C. 52 D. 59
- 9) $4 \times 7 \frac{1}{10} =$ A. $28 \frac{4}{10}$ B. $36 \frac{4}{10}$ C. $25 \frac{1}{10}$ D. $33 \frac{4}{10}$
- 10) $2 \times 8 \frac{5}{8} =$ A. $15 \frac{5}{8}$ B. $20 \frac{2}{8}$ C. $13 \frac{2}{8}$ D. $17 \frac{2}{8}$
- 11) $9 \times 7 \frac{3}{8} =$ A. $60 \frac{3}{8}$ B. $66 \frac{3}{8}$ C. $73 \frac{3}{8}$ D. $61 \frac{3}{8}$
- 12) $3 \times 5 \frac{8}{9} =$ A. $19 \frac{6}{9}$ B. $13 \frac{6}{9}$ C. $12 \frac{6}{9}$ D. $17 \frac{6}{9}$



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Answers

- | | | | | | |
|--------------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------------|
| 1) $5 \frac{6}{9} \times 5 =$ | A. $32 \frac{6}{9}$ | B. $22 \frac{3}{9}$ | C. $28 \frac{3}{9}$ | D. $23 \frac{6}{9}$ | 1. <u> C </u> |
| 2) $2 \frac{7}{10} \times 2 =$ | A. $5 \frac{4}{10}$ | B. $1 \frac{4}{10}$ | C. $7 \frac{7}{10}$ | D. $3 \frac{7}{10}$ | 2. <u> A </u> |
| 3) $8 \frac{2}{4} \times 9 =$ | A. $84 \frac{2}{4}$ | B. $71 \frac{2}{4}$ | C. $76 \frac{2}{4}$ | D. $83 \frac{2}{4}$ | 3. <u> C </u> |
| 4) $9 \times 4 \frac{2}{8} =$ | A. $38 \frac{2}{8}$ | B. $47 \frac{2}{8}$ | C. $34 \frac{2}{8}$ | D. $48 \frac{2}{8}$ | 4. <u> A </u> |
| 5) $5 \times 6 \frac{3}{6} =$ | A. $29 \frac{3}{6}$ | B. $32 \frac{3}{6}$ | C. $40 \frac{3}{6}$ | D. $38 \frac{3}{6}$ | 5. <u> B </u> |
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| 8) $8 \times 6 \frac{4}{8} =$ | A. $58 \frac{4}{8}$ | B. 64 | C. 52 | D. 59 | 8. <u> C </u> |
| 9) $4 \times 7 \frac{1}{10} =$ | A. $28 \frac{4}{10}$ | B. $36 \frac{4}{10}$ | C. $25 \frac{1}{10}$ | D. $33 \frac{4}{10}$ | 9. <u> A </u> |
| 10) $2 \times 8 \frac{5}{8} =$ | A. $15 \frac{5}{8}$ | B. $20 \frac{2}{8}$ | C. $13 \frac{2}{8}$ | D. $17 \frac{2}{8}$ | 10. <u> D </u> |
| 11) $9 \times 7 \frac{3}{8} =$ | A. $60 \frac{3}{8}$ | B. $66 \frac{3}{8}$ | C. $73 \frac{3}{8}$ | D. $61 \frac{3}{8}$ | 11. <u> B </u> |
| 12) $3 \times 5 \frac{8}{9} =$ | A. $19 \frac{6}{9}$ | B. $13 \frac{6}{9}$ | C. $12 \frac{6}{9}$ | D. $17 \frac{6}{9}$ | 12. <u> D </u> |