Estimating Multiplication of Fractions

Name:

Determine the answer using estimation.

1) $4 \times 4\frac{6}{8} =$ A. 19   B. 12   C. $15\frac{6}{8}$ D. 14

2) $8 \times 7\frac{3}{6} =$ A. 53   B. 67   C. 60   D. 66

3) $5\frac{1}{2} \times 9 =$ A. $49\frac{1}{2}$ B. $55\frac{1}{2}$ C. $63\frac{1}{2}$ D. $57\frac{1}{2}$

4) $4 \times 9\frac{1}{5} =$ A. $36\frac{4}{5}$ B. $43\frac{1}{5}$ C. $42\frac{4}{5}$ D. $33\frac{1}{5}$

5) $5 \times 9\frac{4}{6} =$ A. $42\frac{4}{6}$ B. $52\frac{2}{6}$ C. $53\frac{4}{6}$ D. $48\frac{2}{6}$

6) $6\frac{3}{7} \times 6 =$ A. $44\frac{4}{7}$ B. $38\frac{4}{7}$ C. $34\frac{4}{7}$ D. $43\frac{3}{7}$

7) $9\frac{1}{6} \times 7 =$ A. $64\frac{1}{6}$ B. $71\frac{1}{6}$ C. $77\frac{1}{6}$ D. $56\frac{1}{6}$

8) $9\frac{2}{8} \times 6 =$ A. $62\frac{2}{8}$ B. $55\frac{4}{8}$ C. $61\frac{4}{8}$ D. $53\frac{4}{8}$

9) $4\frac{2}{5} \times 9 =$ A. $54\frac{3}{5}$ B. $34\frac{3}{5}$ C. $39\frac{3}{5}$ D. $33\frac{2}{5}$

10) $3\frac{2}{3} \times 9 =$ A. 26   B. 33   C. 18   D. $38\frac{2}{3}$

11) $7\frac{2}{4} \times 4 =$ A. 26   B. 25   C. $27\frac{2}{4}$ D. 30

12) $2 \times 2\frac{6}{10} =$ A. $5\frac{2}{10}$ B. $2\frac{2}{10}$ C. $1\frac{6}{10}$ D. $9\frac{6}{10}$

Answers

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

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1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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. **A**

2. **C**

3. **A**

4. **A**

5. **D**

6. **B**

7. **A**

8. **B**

9. **C**

10. **B**

11. **D**

12. **A**

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