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) $8 \times 6\frac{2}{3} =$ A. $53\frac{1}{3}$ B. $46\frac{2}{3}$ C. $44\frac{2}{3}$ D. $64\frac{1}{3}$

2) $2\frac{5}{9} \times 6 =$ A. $15\frac{3}{9}$ B. $22\frac{5}{9}$ C. $24\frac{3}{9}$ D. $20\frac{5}{9}$

3) $7\frac{5}{6} \times 5 =$ A. $39\frac{1}{6}$ B. $32\frac{1}{6}$ C. $43\frac{1}{6}$ D. $44\frac{1}{6}$

4) $5 \times 4\frac{4}{7} =$ A. $17\frac{4}{7}$ B. $15\frac{6}{7}$ C. $22\frac{6}{7}$ D. $28\frac{4}{7}$

5) $3 \times 6\frac{2}{3} =$ A. 20 B. $25\frac{2}{3}$ C. $24\frac{2}{3}$ D. 24

6) $4 \times 7\frac{4}{5} =$ A. $26\frac{4}{5}$ B. $34\frac{4}{5}$ C. $31\frac{1}{5}$ D. $34\frac{1}{5}$

7) $6\frac{3}{7} \times 2 =$ A. $12\frac{6}{7}$ B. $16\frac{6}{7}$ C. $17\frac{3}{7}$ D. $8\frac{3}{7}$

8) $6 \times 2\frac{2}{3} =$ A. 8 B. 22 C. $20\frac{2}{3}$ D. 16

9) $7\frac{5}{6} \times 7 =$ A. $42\frac{5}{6}$ B. $63\frac{5}{6}$ C. $59\frac{5}{6}$ D. $54\frac{5}{6}$

10) $8 \times 3\frac{3}{9} =$ A. $16\frac{6}{9}$ B. $34\frac{3}{9}$ C. $22\frac{3}{9}$ D. $26\frac{6}{9}$

Answers

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

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

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Answers

1. A
2. A
3. A
4. C
5. A
6. C
7. A
8. D
9. D
10. D
11. A
12. B

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