Estimating Multiplication of Fractions

Name: _____

Determine the answer using estimation.

1) $3\frac{1}{2} \times 7 =$ A. $14\frac{1}{2}$ B. $18\frac{1}{2}$ C. $24\frac{1}{2}$ D. $35\frac{1}{2}$

2) $6\frac{3}{8} \times 3 =$ A. $19\frac{1}{8}$ B. $24\frac{1}{8}$ C. $16\frac{3}{8}$ D. $16\frac{1}{8}$

3) $2\frac{3}{8} \times 6 =$ A. $9\frac{2}{8}$ B. $14\frac{2}{8}$ C. $22\frac{3}{8}$ D. $6\frac{2}{8}$

4) $8 \times 3\frac{1}{4} =$ A. 26   B. 20   C. $35\frac{1}{4}$ D. $20\frac{1}{4}$

5) $8 \times 2\frac{3}{6} =$ A. 20   B. 28   C. $26\frac{3}{6}$ D. $27\frac{3}{6}$

6) $4\frac{2}{6} \times 4 =$ A. $23\frac{2}{6}$ B. $17\frac{2}{6}$ C. $13\frac{2}{6}$ D. $14\frac{2}{6}$

7) $9\frac{1}{6} \times 7 =$ A. $64\frac{1}{6}$ B. $77\frac{1}{6}$ C. $60\frac{1}{6}$ D. $56\frac{1}{6}$

8) $3 \times 9\frac{3}{10} =$ A. $32\frac{3}{10}$ B. $25\frac{3}{10}$ C. $27\frac{9}{10}$ D. $34\frac{3}{10}$

9) $2 \times 8\frac{3}{5} =$ A. $17\frac{1}{5}$ B. $22\frac{3}{5}$ C. $21\frac{3}{5}$ D. $20\frac{1}{5}$

10) $4 \times 8\frac{1}{4} =$ A. 30   B. 33   C. 28   D. 38

Answers

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

Math

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2

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. **C**

2. **A**

3. **B**

4. **A**

5. **A**

6. **B**

7. **A**

8. **C**

9. **A**

10. **B**

11. **A**

12. **A**

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C. $24\frac{1}{2}$
D. $35\frac{1}{2}$

2) $6\frac{3}{8} \times 3 =$
A. $19\frac{1}{8}$
B. $24\frac{1}{8}$
C. $16\frac{3}{8}$
D. $16\frac{1}{8}$

3) $2\frac{3}{8} \times 6 =$
A. $9\frac{2}{8}$
B. $14\frac{2}{8}$
C. $22\frac{3}{8}$
D. $6\frac{2}{8}$

4) $8 \times 3\frac{1}{4} =$
A. 26
B. 20
C. $35\frac{1}{4}$
D. $20\frac{1}{4}$

5) $8 \times 2\frac{3}{6} =$
A. 20
B. 28
C. $26\frac{3}{6}$
D. $27\frac{3}{6}$

6) $4\frac{2}{6} \times 4 =$
A. $23\frac{2}{6}$
B. $17\frac{2}{6}$
C. $13\frac{2}{6}$
D. $14\frac{2}{6}$

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A. $64\frac{1}{6}$
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A. 30
B. 33
C. 28
D. 38

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