

**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. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

1) $5 \frac{3}{4} \times 4 =$ A. 26 B. $18 \frac{3}{4}$ C. 23 D. $21 \frac{3}{4}$

2) $8 \times 9 \frac{1}{2} =$ A. 76 B. 68 C. $77 \frac{1}{2}$ D. 88

3) $3 \times 5 \frac{1}{2} =$ A. $15 \frac{1}{2}$ B. $12 \frac{1}{2}$ C. $16 \frac{1}{2}$ D. $21 \frac{1}{2}$

4) $5 \times 6 \frac{6}{10} =$ A. 33 B. 37 C. 25 D. $33 \frac{3}{5}$

5) $8 \frac{1}{5} \times 7 =$ A. $57 \frac{2}{5}$ B. $53 \frac{2}{5}$ C. $60 \frac{1}{5}$ D. $52 \frac{2}{5}$

6) $4 \frac{2}{7} \times 5 =$ A. $15 \frac{3}{7}$ B. $17 \frac{2}{7}$ C. $16 \frac{3}{7}$ D. $21 \frac{3}{7}$

7) $5 \frac{2}{6} \times 4 =$ A. $28 \frac{1}{3}$ B. $21 \frac{1}{3}$ C. $22 \frac{1}{3}$ D. $16 \frac{1}{3}$

8) $3 \times 8 \frac{3}{4} =$ A. $26 \frac{1}{4}$ B. $30 \frac{1}{4}$ C. $30 \frac{1}{4}$ D. $29 \frac{1}{4}$

9) $2 \times 6 \frac{2}{8} =$ A. $10 \frac{1}{2}$ B. $9 \frac{1}{2}$ C. $12 \frac{1}{2}$ D. $10 \frac{1}{2}$

10) $3 \times 3 \frac{1}{3} =$ A. 10 B. $10 \frac{1}{3}$ C. 16 D. 6

**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) $5\frac{3}{4} \times 4 =$ A. 26 B. $18\frac{3}{4}$ C. 23 D. $21\frac{3}{4}$
- 2) $8 \times 9\frac{1}{2} =$ A. 76 B. 68 C. $77\frac{1}{2}$ D. 88
- 3) $3 \times 5\frac{1}{2} =$ A. $15\frac{1}{2}$ B. $12\frac{1}{2}$ C. $16\frac{1}{2}$ D. $21\frac{1}{2}$
- 4) $5 \times 6\frac{6}{10} =$ A. 33 B. 37 C. 25 D. $33\frac{3}{5}$
- 5) $8\frac{1}{5} \times 7 =$ A. $57\frac{2}{5}$ B. $53\frac{2}{5}$ C. $60\frac{1}{5}$ D. $52\frac{2}{5}$
- 6) $4\frac{2}{7} \times 5 =$ A. $15\frac{3}{7}$ B. $17\frac{2}{7}$ C. $16\frac{3}{7}$ D. $21\frac{3}{7}$
- 7) $5\frac{2}{6} \times 4 =$ A. $28\frac{1}{3}$ B. $21\frac{1}{3}$ C. $22\frac{1}{3}$ D. $16\frac{1}{3}$
- 8) $3 \times 8\frac{3}{4} =$ A. $26\frac{1}{4}$ B. $30\frac{1}{4}$ C. $30\frac{1}{4}$ D. $29\frac{1}{4}$
- 9) $2 \times 6\frac{2}{8} =$ A. $10\frac{1}{2}$ B. $9\frac{1}{2}$ C. $12\frac{1}{2}$ D. $10\frac{1}{2}$
- 10) $3 \times 3\frac{1}{3} =$ A. 10 B. $10\frac{1}{3}$ C. 16 D. 6

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