

**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. _____
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12. _____

1) $9 \frac{4}{10} \times 3 =$ A. $28 \frac{2}{10}$ B. $25 \frac{4}{10}$ C. $34 \frac{2}{10}$ D. $32 \frac{4}{10}$

2) $3 \times 7 \frac{4}{9} =$ A. $17 \frac{4}{9}$ B. $28 \frac{3}{9}$ C. $22 \frac{3}{9}$ D. $28 \frac{4}{9}$

3) $7 \times 3 \frac{1}{2} =$ A. $17 \frac{1}{2}$ B. $31 \frac{1}{2}$ C. $18 \frac{1}{2}$ D. $24 \frac{1}{2}$

4) $7 \times 2 \frac{5}{8} =$ A. $18 \frac{3}{8}$ B. $24 \frac{3}{8}$ C. $11 \frac{3}{8}$ D. $28 \frac{3}{8}$

5) $8 \times 3 \frac{4}{8} =$ A. 28 B. 21 C. 20 D. 34

6) $4 \times 4 \frac{4}{6} =$ A. $14 \frac{4}{6}$ B. $12 \frac{4}{6}$ C. $18 \frac{4}{6}$ D. $22 \frac{4}{6}$

7) $8 \times 4 \frac{4}{6} =$ A. $37 \frac{2}{6}$ B. $42 \frac{2}{6}$ C. $48 \frac{2}{6}$ D. $43 \frac{2}{6}$

8) $4 \frac{1}{2} \times 7 =$ A. $38 \frac{1}{2}$ B. $37 \frac{1}{2}$ C. $21 \frac{1}{2}$ D. $31 \frac{1}{2}$

9) $5 \times 5 \frac{6}{8} =$ A. $21 \frac{6}{8}$ B. $28 \frac{6}{8}$ C. $33 \frac{6}{8}$ D. $23 \frac{6}{8}$

10) $4 \times 5 \frac{1}{3} =$ A. $16 \frac{1}{3}$ B. $21 \frac{1}{3}$ C. $26 \frac{1}{3}$ D. $28 \frac{1}{3}$

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2) $3 \times 7 \frac{4}{9} =$ A. $17 \frac{4}{9}$ B. $28 \frac{3}{9}$ C. $22 \frac{3}{9}$ D. $28 \frac{4}{9}$

3) $7 \times 3 \frac{1}{2} =$ A. $17 \frac{1}{2}$ B. $31 \frac{1}{2}$ C. $18 \frac{1}{2}$ D. $24 \frac{1}{2}$

4) $7 \times 2 \frac{5}{8} =$ A. $18 \frac{3}{8}$ B. $24 \frac{3}{8}$ C. $11 \frac{3}{8}$ D. $28 \frac{3}{8}$

5) $8 \times 3 \frac{4}{8} =$ A. 28 B. 21 C. 20 D. 34

6) $4 \times 4 \frac{4}{6} =$ A. $14 \frac{4}{6}$ B. $12 \frac{4}{6}$ C. $18 \frac{4}{6}$ D. $22 \frac{4}{6}$

7) $8 \times 4 \frac{4}{6} =$ A. $37 \frac{2}{6}$ B. $42 \frac{2}{6}$ C. $48 \frac{2}{6}$ D. $43 \frac{2}{6}$

8) $4 \frac{1}{2} \times 7 =$ A. $38 \frac{1}{2}$ B. $37 \frac{1}{2}$ C. $21 \frac{1}{2}$ D. $31 \frac{1}{2}$

9) $5 \times 5 \frac{6}{8} =$ A. $21 \frac{6}{8}$ B. $28 \frac{6}{8}$ C. $33 \frac{6}{8}$ D. $23 \frac{6}{8}$

10) $4 \times 5 \frac{1}{3} =$ A. $16 \frac{1}{3}$ B. $21 \frac{1}{3}$ C. $26 \frac{1}{3}$ D. $28 \frac{1}{3}$

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

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4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

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

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The actual answer is $33 \frac{1}{3}$ which is between 5×6 (30) and 5×7 (35).

Answers

- 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

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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6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

- 1) $3 \times 2 \frac{3}{7} =$ A. $11 \frac{3}{7}$ B. $13 \frac{3}{7}$ C. $7 \frac{2}{7}$ D. $3 \frac{3}{7}$
- 2) $6 \frac{4}{6} \times 4 =$ A. $26 \frac{4}{6}$ B. $21 \frac{4}{6}$ C. $30 \frac{4}{6}$ D. $22 \frac{4}{6}$
- 3) $2 \times 3 \frac{3}{6} =$ A. $2 \frac{3}{6}$ B. 11 C. $3 \frac{3}{6}$ D. 7
- 4) $5 \frac{9}{10} \times 4 =$ A. $27 \frac{6}{10}$ B. $28 \frac{9}{10}$ C. $16 \frac{9}{10}$ D. $23 \frac{6}{10}$
- 5) $9 \times 2 \frac{1}{6} =$ A. $30 \frac{3}{6}$ B. $19 \frac{3}{6}$ C. $30 \frac{1}{6}$ D. $36 \frac{3}{6}$
- 6) $6 \times 2 \frac{6}{8} =$ A. $10 \frac{6}{8}$ B. $22 \frac{6}{8}$ C. $24 \frac{4}{8}$ D. $16 \frac{4}{8}$
- 7) $3 \times 4 \frac{3}{4} =$ A. $9 \frac{3}{4}$ B. $9 \frac{1}{4}$ C. $14 \frac{1}{4}$ D. $19 \frac{1}{4}$
- 8) $6 \frac{5}{6} \times 6 =$ A. 41 B. $46 \frac{5}{6}$ C. 46 D. 33
- 9) $4 \times 7 \frac{8}{9} =$ A. $31 \frac{5}{9}$ B. $26 \frac{5}{9}$ C. $25 \frac{5}{9}$ D. $36 \frac{5}{9}$
- 10) $5 \frac{1}{6} \times 2 =$ A. $10 \frac{2}{6}$ B. $8 \frac{2}{6}$ C. $6 \frac{1}{6}$ D. $15 \frac{1}{6}$

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Answers

- 1) $3 \times 2 \frac{3}{7} =$ A. $11 \frac{3}{7}$ B. $13 \frac{3}{7}$ C. $7 \frac{2}{7}$ D. $3 \frac{3}{7}$
- 2) $6 \frac{4}{6} \times 4 =$ A. $26 \frac{4}{6}$ B. $21 \frac{4}{6}$ C. $30 \frac{4}{6}$ D. $22 \frac{4}{6}$
- 3) $2 \times 3 \frac{3}{6} =$ A. $2 \frac{3}{6}$ B. 11 C. $3 \frac{3}{6}$ D. 7
- 4) $5 \frac{9}{10} \times 4 =$ A. $27 \frac{6}{10}$ B. $28 \frac{9}{10}$ C. $16 \frac{9}{10}$ D. $23 \frac{6}{10}$
- 5) $9 \times 2 \frac{1}{6} =$ A. $30 \frac{3}{6}$ B. $19 \frac{3}{6}$ C. $30 \frac{1}{6}$ D. $36 \frac{3}{6}$
- 6) $6 \times 2 \frac{6}{8} =$ A. $10 \frac{6}{8}$ B. $22 \frac{6}{8}$ C. $24 \frac{4}{8}$ D. $16 \frac{4}{8}$
- 7) $3 \times 4 \frac{3}{4} =$ A. $9 \frac{3}{4}$ B. $9 \frac{1}{4}$ C. $14 \frac{1}{4}$ D. $19 \frac{1}{4}$
- 8) $6 \frac{5}{6} \times 6 =$ A. 41 B. $46 \frac{5}{6}$ C. 46 D. 33
- 9) $4 \times 7 \frac{8}{9} =$ A. $31 \frac{5}{9}$ B. $26 \frac{5}{9}$ C. $25 \frac{5}{9}$ D. $36 \frac{5}{9}$
- 10) $5 \frac{1}{6} \times 2 =$ A. $10 \frac{2}{6}$ B. $8 \frac{2}{6}$ C. $6 \frac{1}{6}$ D. $15 \frac{1}{6}$

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

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5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

- 1) $3 \frac{1}{4} \times 3 =$ A. $16 \frac{1}{4}$ B. $7 \frac{3}{4}$ C. $9 \frac{3}{4}$ D. $15 \frac{1}{4}$
- 2) $6 \times 7 \frac{5}{6} =$ A. $51 \frac{5}{6}$ B. 47 C. $52 \frac{5}{6}$ D. $40 \frac{5}{6}$
- 3) $6 \frac{1}{7} \times 8 =$ A. $40 \frac{1}{7}$ B. $49 \frac{1}{7}$ C. $45 \frac{1}{7}$ D. $46 \frac{1}{7}$
- 4) $4 \times 4 \frac{7}{10} =$ A. $24 \frac{8}{10}$ B. $18 \frac{8}{10}$ C. $22 \frac{7}{10}$ D. $12 \frac{8}{10}$
- 5) $6 \frac{3}{7} \times 8 =$ A. $58 \frac{3}{7}$ B. $45 \frac{3}{7}$ C. $46 \frac{3}{7}$ D. $51 \frac{3}{7}$
- 6) $2 \times 4 \frac{1}{3} =$ A. $6 \frac{2}{3}$ B. $4 \frac{2}{3}$ C. $12 \frac{2}{3}$ D. $8 \frac{2}{3}$
- 7) $3 \frac{3}{6} \times 2 =$ A. $11 \frac{3}{6}$ B. $2 \frac{3}{6}$ C. 7 D. 2
- 8) $4 \frac{6}{10} \times 9 =$ A. $33 \frac{4}{10}$ B. $41 \frac{4}{10}$ C. $47 \frac{4}{10}$ D. $48 \frac{6}{10}$
- 9) $3 \frac{1}{9} \times 9 =$ A. $39 \frac{1}{9}$ B. $40 \frac{1}{9}$ C. 28 D. 24
- 10) $6 \times 7 \frac{3}{4} =$ A. $38 \frac{2}{4}$ B. $46 \frac{2}{4}$ C. $36 \frac{2}{4}$ D. $50 \frac{2}{4}$

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- 2) $6 \times 7 \frac{5}{6} =$ A. $51 \frac{5}{6}$ B. 47 C. $52 \frac{5}{6}$ D. $40 \frac{5}{6}$
- 3) $6 \frac{1}{7} \times 8 =$ A. $40 \frac{1}{7}$ B. $49 \frac{1}{7}$ C. $45 \frac{1}{7}$ D. $46 \frac{1}{7}$
- 4) $4 \times 4 \frac{7}{10} =$ A. $24 \frac{8}{10}$ B. $18 \frac{8}{10}$ C. $22 \frac{7}{10}$ D. $12 \frac{8}{10}$
- 5) $6 \frac{3}{7} \times 8 =$ A. $58 \frac{3}{7}$ B. $45 \frac{3}{7}$ C. $46 \frac{3}{7}$ D. $51 \frac{3}{7}$
- 6) $2 \times 4 \frac{1}{3} =$ A. $6 \frac{2}{3}$ B. $4 \frac{2}{3}$ C. $12 \frac{2}{3}$ D. $8 \frac{2}{3}$
- 7) $3 \frac{3}{6} \times 2 =$ A. $11 \frac{3}{6}$ B. $2 \frac{3}{6}$ C. 7 D. 2
- 8) $4 \frac{6}{10} \times 9 =$ A. $33 \frac{4}{10}$ B. $41 \frac{4}{10}$ C. $47 \frac{4}{10}$ D. $48 \frac{6}{10}$
- 9) $3 \frac{1}{9} \times 9 =$ A. $39 \frac{1}{9}$ B. $40 \frac{1}{9}$ C. 28 D. 24
- 10) $6 \times 7 \frac{3}{4} =$ A. $38 \frac{2}{4}$ B. $46 \frac{2}{4}$ C. $36 \frac{2}{4}$ D. $50 \frac{2}{4}$

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

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1) $5 \times 2 \frac{2}{4} =$ A. $8 \frac{2}{4}$ B. $6 \frac{2}{4}$ C. $18 \frac{2}{4}$ D. $12 \frac{2}{4}$

2) $3 \frac{2}{3} \times 7 =$ A. $25 \frac{2}{3}$ B. $31 \frac{2}{3}$ C. $18 \frac{2}{3}$ D. $35 \frac{2}{3}$

3) $7 \frac{1}{5} \times 6 =$ A. $40 \frac{1}{5}$ B. $43 \frac{1}{5}$ C. $50 \frac{1}{5}$ D. $36 \frac{1}{5}$

4) $3 \times 4 \frac{2}{6} =$ A. 8 B. 13 C. 18 D. 10

5) $2 \times 6 \frac{5}{8} =$ A. $13 \frac{2}{8}$ B. $9 \frac{2}{8}$ C. $16 \frac{2}{8}$ D. $8 \frac{5}{8}$

6) $4 \frac{2}{3} \times 5 =$ A. $23 \frac{1}{3}$ B. $17 \frac{2}{3}$ C. $28 \frac{1}{3}$ D. $18 \frac{1}{3}$

7) $9 \times 8 \frac{4}{9} =$ A. 76 B. $85 \frac{4}{9}$ C. $69 \frac{4}{9}$ D. 90

8) $7 \frac{2}{4} \times 9 =$ A. $81 \frac{2}{4}$ B. $74 \frac{2}{4}$ C. $75 \frac{2}{4}$ D. $67 \frac{2}{4}$

9) $2 \times 9 \frac{1}{6} =$ A. $18 \frac{2}{6}$ B. $14 \frac{1}{6}$ C. $23 \frac{1}{6}$ D. $22 \frac{2}{6}$

10) $2 \times 3 \frac{6}{8} =$ A. $7 \frac{4}{8}$ B. $10 \frac{6}{8}$ C. $10 \frac{4}{8}$ D. $3 \frac{4}{8}$

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Answers

- 1) $5 \times 2 \frac{2}{4} =$ A. $8 \frac{2}{4}$ B. $6 \frac{2}{4}$ C. $18 \frac{2}{4}$ D. $12 \frac{2}{4}$
- 2) $3 \frac{2}{3} \times 7 =$ A. $25 \frac{2}{3}$ B. $31 \frac{2}{3}$ C. $18 \frac{2}{3}$ D. $35 \frac{2}{3}$
- 3) $7 \frac{1}{5} \times 6 =$ A. $40 \frac{1}{5}$ B. $43 \frac{1}{5}$ C. $50 \frac{1}{5}$ D. $36 \frac{1}{5}$
- 4) $3 \times 4 \frac{2}{6} =$ A. 8 B. 13 C. 18 D. 10
- 5) $2 \times 6 \frac{5}{8} =$ A. $13 \frac{2}{8}$ B. $9 \frac{2}{8}$ C. $16 \frac{2}{8}$ D. $8 \frac{5}{8}$
- 6) $4 \frac{2}{3} \times 5 =$ A. $23 \frac{1}{3}$ B. $17 \frac{2}{3}$ C. $28 \frac{1}{3}$ D. $18 \frac{1}{3}$
- 7) $9 \times 8 \frac{4}{9} =$ A. 76 B. $85 \frac{4}{9}$ C. $69 \frac{4}{9}$ D. 90
- 8) $7 \frac{2}{4} \times 9 =$ A. $81 \frac{2}{4}$ B. $74 \frac{2}{4}$ C. $75 \frac{2}{4}$ D. $67 \frac{2}{4}$
- 9) $2 \times 9 \frac{1}{6} =$ A. $18 \frac{2}{6}$ B. $14 \frac{1}{6}$ C. $23 \frac{1}{6}$ D. $22 \frac{2}{6}$
- 10) $2 \times 3 \frac{6}{8} =$ A. $7 \frac{4}{8}$ B. $10 \frac{6}{8}$ C. $10 \frac{4}{8}$ D. $3 \frac{4}{8}$

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

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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) $2 \times 8 \frac{1}{5} =$ A. $16 \frac{2}{5}$ B. $12 \frac{1}{5}$ C. $20 \frac{1}{5}$ D. $20 \frac{2}{5}$

2) $9 \times 6 \frac{3}{9} =$ A. 57 B. 51 C. 52 D. $66 \frac{3}{9}$

3) $3 \times 8 \frac{4}{5} =$ A. $29 \frac{2}{5}$ B. $21 \frac{2}{5}$ C. $30 \frac{4}{5}$ D. $26 \frac{2}{5}$

4) $9 \frac{5}{7} \times 7 =$ A. $60 \frac{5}{7}$ B. $73 \frac{5}{7}$ C. 77 D. 68

5) $3 \frac{2}{3} \times 2 =$ A. $11 \frac{2}{3}$ B. $4 \frac{1}{3}$ C. $7 \frac{1}{3}$ D. $11 \frac{1}{3}$

6) $9 \frac{2}{9} \times 8 =$ A. $69 \frac{7}{9}$ B. $69 \frac{2}{9}$ C. $68 \frac{2}{9}$ D. $73 \frac{7}{9}$

7) $9 \times 3 \frac{4}{7} =$ A. $32 \frac{1}{7}$ B. $23 \frac{4}{7}$ C. $40 \frac{4}{7}$ D. $25 \frac{1}{7}$

8) $5 \frac{4}{9} \times 4 =$ A. $26 \frac{4}{9}$ B. $21 \frac{7}{9}$ C. $17 \frac{7}{9}$ D. $28 \frac{4}{9}$

9) $9 \frac{7}{8} \times 7 =$ A. $77 \frac{1}{8}$ B. $74 \frac{1}{8}$ C. $69 \frac{1}{8}$ D. $74 \frac{7}{8}$

10) $5 \times 6 \frac{6}{9} =$ A. $33 \frac{3}{9}$ B. $40 \frac{3}{9}$ C. $38 \frac{3}{9}$ D. $26 \frac{6}{9}$

**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) $2 \times 8 \frac{1}{5} =$ A. $16 \frac{2}{5}$ B. $12 \frac{1}{5}$ C. $20 \frac{1}{5}$ D. $20 \frac{2}{5}$
- 2) $9 \times 6 \frac{3}{9} =$ A. 57 B. 51 C. 52 D. $66 \frac{3}{9}$
- 3) $3 \times 8 \frac{4}{5} =$ A. $29 \frac{2}{5}$ B. $21 \frac{2}{5}$ C. $30 \frac{4}{5}$ D. $26 \frac{2}{5}$
- 4) $9 \frac{5}{7} \times 7 =$ A. $60 \frac{5}{7}$ B. $73 \frac{5}{7}$ C. 77 D. 68
- 5) $3 \frac{2}{3} \times 2 =$ A. $11 \frac{2}{3}$ B. $4 \frac{1}{3}$ C. $7 \frac{1}{3}$ D. $11 \frac{1}{3}$
- 6) $9 \frac{2}{9} \times 8 =$ A. $69 \frac{7}{9}$ B. $69 \frac{2}{9}$ C. $68 \frac{2}{9}$ D. $73 \frac{7}{9}$
- 7) $9 \times 3 \frac{4}{7} =$ A. $32 \frac{1}{7}$ B. $23 \frac{4}{7}$ C. $40 \frac{4}{7}$ D. $25 \frac{1}{7}$
- 8) $5 \frac{4}{9} \times 4 =$ A. $26 \frac{4}{9}$ B. $21 \frac{7}{9}$ C. $17 \frac{7}{9}$ D. $28 \frac{4}{9}$
- 9) $9 \frac{7}{8} \times 7 =$ A. $77 \frac{1}{8}$ B. $74 \frac{1}{8}$ C. $69 \frac{1}{8}$ D. $74 \frac{7}{8}$
- 10) $5 \times 6 \frac{6}{9} =$ A. $33 \frac{3}{9}$ B. $40 \frac{3}{9}$ C. $38 \frac{3}{9}$ D. $26 \frac{6}{9}$

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

**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) $8 \times 6 \frac{2}{3} =$ 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. $26 \frac{6}{9}$

**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) $8 \times 6 \frac{2}{3} =$ 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. $26 \frac{6}{9}$

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

**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) $5 \times 8 \frac{2}{3} =$ A. $49 \frac{2}{3}$ B. $37 \frac{1}{3}$ C. $47 \frac{1}{3}$ D. $43 \frac{1}{3}$

2) $5 \frac{2}{6} \times 4 =$ A. $27 \frac{2}{6}$ B. $21 \frac{2}{6}$ C. $16 \frac{2}{6}$ D. $26 \frac{2}{6}$

3) $2 \times 3 \frac{6}{8} =$ A. $10 \frac{6}{8}$ B. $7 \frac{4}{8}$ C. $2 \frac{6}{8}$ D. $12 \frac{6}{8}$

4) $7 \frac{3}{5} \times 4 =$ A. $36 \frac{3}{5}$ B. $34 \frac{3}{5}$ C. $30 \frac{2}{5}$ D. $25 \frac{3}{5}$

5) $9 \times 9 \frac{1}{4} =$ A. $93 \frac{1}{4}$ B. $83 \frac{1}{4}$ C. $99 \frac{1}{4}$ D. $79 \frac{1}{4}$

6) $5 \frac{1}{9} \times 9 =$ A. $57 \frac{1}{9}$ B. 42 C. 46 D. 63

7) $3 \frac{5}{9} \times 6 =$ A. $16 \frac{5}{9}$ B. $15 \frac{3}{9}$ C. $21 \frac{3}{9}$ D. $15 \frac{5}{9}$

8) $5 \frac{1}{10} \times 2 =$ A. $15 \frac{2}{10}$ B. $10 \frac{2}{10}$ C. $14 \frac{2}{10}$ D. $16 \frac{1}{10}$

9) $9 \times 8 \frac{1}{3} =$ A. 84 B. $70 \frac{1}{3}$ C. 63 D. 75

10) $5 \times 4 \frac{7}{8} =$ A. $17 \frac{7}{8}$ B. $28 \frac{7}{8}$ C. $17 \frac{3}{8}$ D. $24 \frac{3}{8}$



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) $5 \times 8 \frac{2}{3} =$ A. $49 \frac{2}{3}$ B. $37 \frac{1}{3}$ C. $47 \frac{1}{3}$ D. $43 \frac{1}{3}$

2) $5 \frac{2}{6} \times 4 =$ A. $27 \frac{2}{6}$ B. $21 \frac{2}{6}$ C. $16 \frac{2}{6}$ D. $26 \frac{2}{6}$

3) $2 \times 3 \frac{6}{8} =$ A. $10 \frac{6}{8}$ B. $7 \frac{4}{8}$ C. $2 \frac{6}{8}$ D. $12 \frac{6}{8}$

4) $7 \frac{3}{5} \times 4 =$ A. $36 \frac{3}{5}$ B. $34 \frac{3}{5}$ C. $30 \frac{2}{5}$ D. $25 \frac{3}{5}$

5) $9 \times 9 \frac{1}{4} =$ A. $93 \frac{1}{4}$ B. $83 \frac{1}{4}$ C. $99 \frac{1}{4}$ D. $79 \frac{1}{4}$

6) $5 \frac{1}{9} \times 9 =$ A. $57 \frac{1}{9}$ B. 42 C. 46 D. 63

7) $3 \frac{5}{9} \times 6 =$ A. $16 \frac{5}{9}$ B. $15 \frac{3}{9}$ C. $21 \frac{3}{9}$ D. $15 \frac{5}{9}$

8) $5 \frac{1}{10} \times 2 =$ A. $15 \frac{2}{10}$ B. $10 \frac{2}{10}$ C. $14 \frac{2}{10}$ D. $16 \frac{1}{10}$

9) $9 \times 8 \frac{1}{3} =$ A. 84 B. $70 \frac{1}{3}$ C. 63 D. 75

10) $5 \times 4 \frac{7}{8} =$ A. $17 \frac{7}{8}$ B. $28 \frac{7}{8}$ C. $17 \frac{3}{8}$ D. $24 \frac{3}{8}$

1. **D**

2. **B**

3. **B**

4. **C**

5. **B**

6. **C**

7. **C**

8. **B**

9. **D**

10. **D**

11. **B**

12. **C**

**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) $3 \frac{2}{4} \times 7 =$ A. $14 \frac{2}{4}$ B. $17 \frac{2}{4}$ C. $24 \frac{2}{4}$ D. $32 \frac{2}{4}$

2) $6 \times 7 \frac{2}{4} =$ A. 45 B. 38 C. $40 \frac{2}{4}$ D. 50

3) $3 \frac{1}{2} \times 4 =$ A. 10 B. 14 C. $10 \frac{1}{2}$ D. 9

4) $4 \frac{2}{7} \times 9 =$ A. $38 \frac{4}{7}$ B. $33 \frac{2}{7}$ C. $27 \frac{4}{7}$ D. $34 \frac{2}{7}$

5) $9 \frac{1}{2} \times 6 =$ A. $51 \frac{1}{2}$ B. 57 C. $64 \frac{1}{2}$ D. $63 \frac{1}{2}$

6) $6 \frac{2}{6} \times 3 =$ A. 19 B. 24 C. $15 \frac{2}{6}$ D. 23

7) $8 \frac{1}{5} \times 5 =$ A. 41 B. 50 C. $36 \frac{1}{5}$ D. 36

8) $2 \frac{1}{2} \times 7 =$ A. $17 \frac{1}{2}$ B. $25 \frac{1}{2}$ C. $23 \frac{1}{2}$ D. $10 \frac{1}{2}$

9) $5 \times 3 \frac{3}{4} =$ A. $12 \frac{3}{4}$ B. $18 \frac{3}{4}$ C. $11 \frac{3}{4}$ D. $22 \frac{3}{4}$

10) $2 \times 3 \frac{6}{8} =$ A. $11 \frac{6}{8}$ B. $7 \frac{4}{8}$ C. $10 \frac{6}{8}$ D. $11 \frac{4}{8}$

**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) $3 \frac{2}{4} \times 7 =$ A. $14 \frac{2}{4}$ B. $17 \frac{2}{4}$ C. $24 \frac{2}{4}$ D. $32 \frac{2}{4}$
- 2) $6 \times 7 \frac{2}{4} =$ A. 45 B. 38 C. $40 \frac{2}{4}$ D. 50
- 3) $3 \frac{1}{2} \times 4 =$ A. 10 B. 14 C. $10 \frac{1}{2}$ D. 9
- 4) $4 \frac{2}{7} \times 9 =$ A. $38 \frac{4}{7}$ B. $33 \frac{2}{7}$ C. $27 \frac{4}{7}$ D. $34 \frac{2}{7}$
- 5) $9 \frac{1}{2} \times 6 =$ A. $51 \frac{1}{2}$ B. 57 C. $64 \frac{1}{2}$ D. $63 \frac{1}{2}$
- 6) $6 \frac{2}{6} \times 3 =$ A. 19 B. 24 C. $15 \frac{2}{6}$ D. 23
- 7) $8 \frac{1}{5} \times 5 =$ A. 41 B. 50 C. $36 \frac{1}{5}$ D. 36
- 8) $2 \frac{1}{2} \times 7 =$ A. $17 \frac{1}{2}$ B. $25 \frac{1}{2}$ C. $23 \frac{1}{2}$ D. $10 \frac{1}{2}$
- 9) $5 \times 3 \frac{3}{4} =$ A. $12 \frac{3}{4}$ B. $18 \frac{3}{4}$ C. $11 \frac{3}{4}$ D. $22 \frac{3}{4}$
- 10) $2 \times 3 \frac{6}{8} =$ A. $11 \frac{6}{8}$ B. $7 \frac{4}{8}$ C. $10 \frac{6}{8}$ D. $11 \frac{4}{8}$

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

**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) $5 \frac{3}{4} \times 6 =$ A. $27 \frac{3}{4}$ B. $40 \frac{3}{4}$ C. $38 \frac{3}{4}$ D. $34 \frac{2}{4}$

2) $9 \frac{1}{2} \times 7 =$ A. $59 \frac{1}{2}$ B. $73 \frac{1}{2}$ C. $60 \frac{1}{2}$ D. $66 \frac{1}{2}$

3) $4 \times 9 \frac{5}{7} =$ A. $38 \frac{6}{7}$ B. $34 \frac{5}{7}$ C. $42 \frac{5}{7}$ D. $44 \frac{6}{7}$

4) $8 \times 7 \frac{3}{6} =$ A. $68 \frac{3}{6}$ B. 72 C. 60 D. $67 \frac{3}{6}$

5) $7 \frac{3}{5} \times 4 =$ A. $34 \frac{2}{5}$ B. $36 \frac{3}{5}$ C. $34 \frac{3}{5}$ D. $30 \frac{2}{5}$

6) $7 \frac{1}{3} \times 6 =$ A. 44 B. $40 \frac{1}{3}$ C. 36 D. 54

7) $5 \frac{1}{8} \times 5 =$ A. $25 \frac{5}{8}$ B. $33 \frac{1}{8}$ C. $21 \frac{1}{8}$ D. $22 \frac{1}{8}$

8) $9 \times 9 \frac{5}{9} =$ A. $77 \frac{5}{9}$ B. 86 C. 93 D. 78

9) $4 \frac{5}{10} \times 8 =$ A. 36 B. $30 \frac{5}{10}$ C. 43 D. 24

10) $6 \times 6 \frac{8}{9} =$ A. $41 \frac{3}{9}$ B. $33 \frac{3}{9}$ C. $34 \frac{3}{9}$ D. $32 \frac{8}{9}$

**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) $5 \frac{3}{4} \times 6 =$ A. $27 \frac{3}{4}$ B. $40 \frac{3}{4}$ C. $38 \frac{3}{4}$ D. $34 \frac{2}{4}$
- 2) $9 \frac{1}{2} \times 7 =$ A. $59 \frac{1}{2}$ B. $73 \frac{1}{2}$ C. $60 \frac{1}{2}$ D. $66 \frac{1}{2}$
- 3) $4 \times 9 \frac{5}{7} =$ A. $38 \frac{6}{7}$ B. $34 \frac{5}{7}$ C. $42 \frac{5}{7}$ D. $44 \frac{6}{7}$
- 4) $8 \times 7 \frac{3}{6} =$ A. $68 \frac{3}{6}$ B. 72 C. 60 D. $67 \frac{3}{6}$
- 5) $7 \frac{3}{5} \times 4 =$ A. $34 \frac{2}{5}$ B. $36 \frac{3}{5}$ C. $34 \frac{3}{5}$ D. $30 \frac{2}{5}$
- 6) $7 \frac{1}{3} \times 6 =$ A. 44 B. $40 \frac{1}{3}$ C. 36 D. 54
- 7) $5 \frac{1}{8} \times 5 =$ A. $25 \frac{5}{8}$ B. $33 \frac{1}{8}$ C. $21 \frac{1}{8}$ D. $22 \frac{1}{8}$
- 8) $9 \times 9 \frac{5}{9} =$ A. $77 \frac{5}{9}$ B. 86 C. 93 D. 78
- 9) $4 \frac{5}{10} \times 8 =$ A. 36 B. $30 \frac{5}{10}$ C. 43 D. 24
- 10) $6 \times 6 \frac{8}{9} =$ A. $41 \frac{3}{9}$ B. $33 \frac{3}{9}$ C. $34 \frac{3}{9}$ D. $32 \frac{8}{9}$

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