

**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) $5 \times 7 \frac{1}{2} =$ A. $37 \frac{1}{2}$ B. $42 \frac{1}{2}$ C. $32 \frac{1}{2}$ D. $31 \frac{1}{2}$

2) $5 \times 8 \frac{1}{5} =$ A. 38 B. 41 C. 37 D. 47

3) $6 \times 5 \frac{2}{3} =$ A. $34 \frac{2}{3}$ B. 42 C. 34 D. 39

4) $6 \frac{1}{2} \times 3 =$ A. $15 \frac{1}{2}$ B. $16 \frac{1}{2}$ C. $17 \frac{1}{2}$ D. $19 \frac{1}{2}$

5) $3 \frac{4}{6} \times 3 =$ A. 6 B. $8 \frac{2}{3}$ C. 11 D. 15

6) $2 \times 5 \frac{1}{10} =$ A. $8 \frac{1}{5}$ B. $16 \frac{1}{5}$ C. $9 \frac{1}{10}$ D. $10 \frac{1}{5}$

7) $6 \frac{4}{10} \times 9 =$ A. $66 \frac{3}{5}$ B. $72 \frac{3}{5}$ C. $60 \frac{2}{5}$ D. $57 \frac{3}{5}$

8) $2 \times 5 \frac{2}{8} =$ A. $7 \frac{1}{4}$ B. $10 \frac{1}{2}$ C. $8 \frac{1}{4}$ D. $6 \frac{1}{2}$

9) $7 \frac{4}{5} \times 4 =$ A. $26 \frac{1}{5}$ B. $25 \frac{1}{5}$ C. $35 \frac{1}{5}$ D. $31 \frac{1}{5}$

10) $5 \frac{8}{9} \times 5 =$ A. $29 \frac{4}{9}$ B. $21 \frac{4}{9}$ C. $20 \frac{4}{9}$ D. $22 \frac{8}{9}$

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