

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Multiplying Mixed Numbers

Convert mixed numbers to improper fractions before multiplying.

1. $3 \frac{8}{10} \times 4 \frac{3}{4}$

2. $3 \frac{6}{10} \times 2 \frac{4}{10}$

3. $3 \frac{3}{4} \times 5 \frac{1}{3}$

4. $8 \frac{3}{4} \times 6 \frac{1}{3}$

5. $3 \frac{8}{10} \times 8 \frac{2}{5}$

6. $3 \frac{3}{4} \times 7 \frac{2}{4}$

7. $9 \frac{2}{10} \times 5 \frac{3}{5}$

8. $6 \frac{7}{10} \times 6 \frac{2}{10}$

9. $9 \frac{3}{5} \times 3 \frac{3}{4}$

10. $2 \frac{2}{5} \times 2 \frac{1}{3}$

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Multiplying Mixed Numbers - Answer key

Convert mixed numbers to improper fractions before multiplying.

1.

$$3 \frac{8}{10} \times 4 \frac{3}{4}$$
$$= 18 \frac{1}{20}$$

$3 \frac{8}{10} = (3 \times 10 + 8) / 10 = 38/10$
 $4 \frac{3}{4} = (4 \times 4 + 3) / 4 = 19/4$
 $38/10 \times 19/4 = 722/40 = 361/20$
Divide both parts by 2: $722/40 = 361/20$.

2.

$$3 \frac{6}{10} \times 2 \frac{4}{10}$$
$$= 8 \frac{16}{25}$$

$3 \frac{6}{10} = (3 \times 10 + 6) / 10 = 36/10$
 $2 \frac{4}{10} = (2 \times 10 + 4) / 10 = 24/10$
 $36/10 \times 24/10 = 864/100 = 216/25$
Divide both parts by 4: $864/100 = 216/25$.

3.

$$3 \frac{3}{4} \times 5 \frac{1}{3}$$
$$= 20$$

$3 \frac{3}{4} = (3 \times 4 + 3) / 4 = 15/4$
 $5 \frac{1}{3} = (5 \times 3 + 1) / 3 = 16/3$
 $15/4 \times 16/3 = 240/12 = 20$
Divide both parts by 12: $240/12 = 20$.

4.

$$8 \frac{3}{4} \times 6 \frac{1}{3}$$
$$= 55 \frac{5}{12}$$

$8 \frac{3}{4} = (8 \times 4 + 3) / 4 = 35/4$
 $6 \frac{1}{3} = (6 \times 3 + 1) / 3 = 19/3$
 $35/4 \times 19/3 = 665/12 = 665/12$
Already in lowest terms: $665/12$.

5.

$$3 \frac{8}{10} \times 8 \frac{2}{5}$$
$$= 31 \frac{23}{25}$$

$3 \frac{8}{10} = (3 \times 10 + 8) / 10 = 38/10$
 $8 \frac{2}{5} = (8 \times 5 + 2) / 5 = 42/5$
 $38/10 \times 42/5 = 1596/50 = 798/25$
Divide both parts by 2: $1596/50 = 798/25$.

6.

$$3 \frac{3}{4} \times 7 \frac{2}{4}$$
$$= 28 \frac{1}{8}$$

$3 \frac{3}{4} = (3 \times 4 + 3) / 4 = 15/4$
 $7 \frac{2}{4} = (7 \times 4 + 2) / 4 = 30/4$
 $15/4 \times 30/4 = 450/16 = 225/8$
Divide both parts by 2: $450/16 = 225/8$.

7.

$$9 \frac{2}{10} \times 5 \frac{3}{5}$$
$$= 51 \frac{13}{25}$$

$9 \frac{2}{10} = (9 \times 10 + 2) / 10 = 92/10$
 $5 \frac{3}{5} = (5 \times 5 + 3) / 5 = 28/5$
 $92/10 \times 28/5 = 2576/50 = 1288/25$
Divide both parts by 2: $2576/50 = 1288/25$.

8.

$$6 \frac{7}{10} \times 6 \frac{2}{10}$$
$$= 41 \frac{27}{50}$$

$6 \frac{7}{10} = (6 \times 10 + 7) / 10 = 67/10$
 $6 \frac{2}{10} = (6 \times 10 + 2) / 10 = 62/10$
 $67/10 \times 62/10 = 4154/100 = 2077/50$
Divide both parts by 2: $4154/100 = 2077/50$.

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9.

$$9 \frac{3}{5} \times 3 \frac{3}{4}$$

$$= 36$$

$$9 \frac{3}{5} = (9 \times 5 + 3) / 5 = 48/5$$

$$3 \frac{3}{4} = (3 \times 4 + 3) / 4 = 15/4$$

$$48/5 \times 15/4 = 720/20 = 36$$

$$\text{Divide both parts by 20: } 720/20 = 36.$$

10.

$$2 \frac{2}{5} \times 2 \frac{1}{3}$$

$$= 5 \frac{3}{5}$$

$$2 \frac{2}{5} = (2 \times 5 + 2) / 5 = 12/5$$

$$2 \frac{1}{3} = (2 \times 3 + 1) / 3 = 7/3$$

$$12/5 \times 7/3 = 84/15 = 28/5$$

$$\text{Divide both parts by 3: } 84/15 = 28/5.$$